JVC

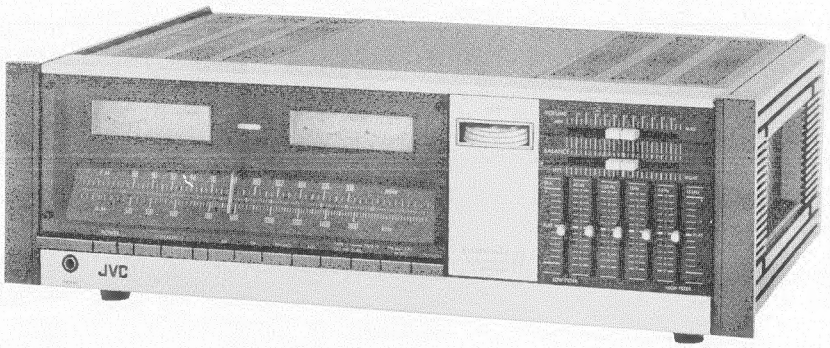
JR-S300
No. 2363
JAN 1976

SERVICE MANUAL

MODEL JR-S300

SEA

INTEGRATED STEREO RECEIVER



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1. Specifications

Dimensions	:	6-5/16"(H) x 19-11/16"(W) x 13-3/16"(D) (16cm x 50cm x 33.5cm)
Weight	:	22.9 lbs. (10.4 kg)
Amplifier Section		
RMS Power Both channels driven (20Hz–20kHz Power Bandwidth)	:	50W per channel at 8Ω
RMS Power	:	55W per channel at 8Ω
Both channels driven at 1kHz	:	65W per channel at 4Ω
Total Harmonic Distortion	:	0.3% at rated output power
Damping Factor	:	50 at 8Ω
Input Sensitivity, Impedance	:	Phono: 2.5mV/50kΩ AUX: 180mV/70kΩ Tape Mon: 180mV/70kΩ
Recording Output Level	:	150mV (Pin) 30mV/80kΩ (DIN)
Frequency Response	:	20Hz – 20kHz $^{+0}_{-0.8}$dB
S.E.A. Center Frequency	:	40Hz, 250Hz, 1kHz, 5kHz & 15kHz
S.E.A. Control Range	:	±12dB
Crosstalk	:	50dB at 1kHz
FM Tuner Section		
Usable Sensitivity	:	1.9μV IHF
Total Harmonic Distortion at 1kHz, 100% Modulation	:	0.2% (Mono) 0.4% (Stereo)
Signal to Noise Ratio	:	70dB (Mono) 60dB (Stereo)
Selectivity	:	60dB IHF Alternate
Capture Ratio	:	1.2dB
Image Rejection	:	70dB at 88MHz
IF Rejection	:	85dB at 98MHz
Stereo Separation	:	45dB at 1kHz 30dB at 10kHz
AM Tuner Section		
Usable Sensitivity	:	30μV/m, 300μV/m
Selectivity	:	30dB
Image Rejection	:	45dB
IF Rejection	:	50dB
Signal to Noise Ratio	:	55dB

2. Removal of Top Cover and Bottom Plate

Procedure and Part Numbers

1. Remove 4 screws (Item No. 4) through the both sides of the cover and one screw (Item No. 2) from the back of the top cover.
2. Remove the top cover.
3. Remove 4 screws (Item No. 7) from bottom plate (Item No. 6) and remove the bottom plate from the chassis.

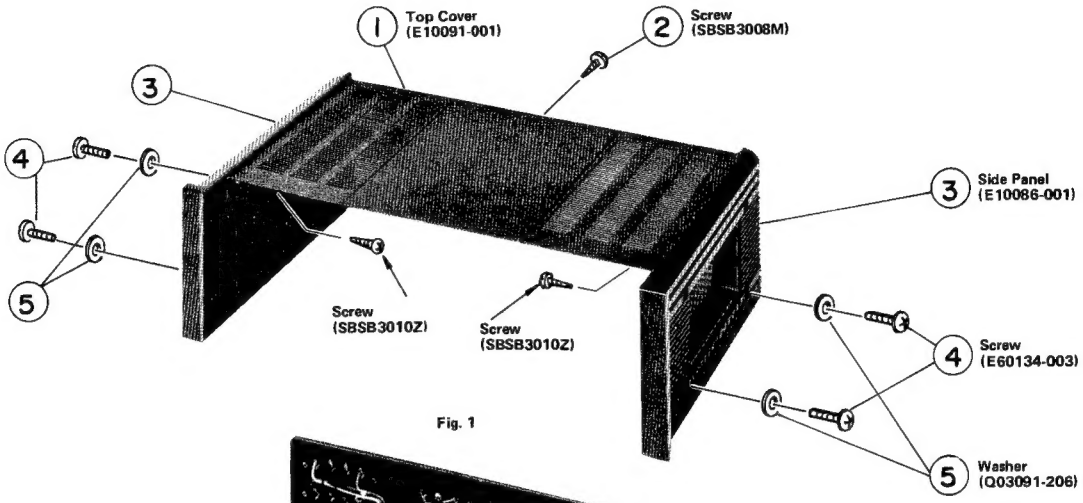


Fig. 1

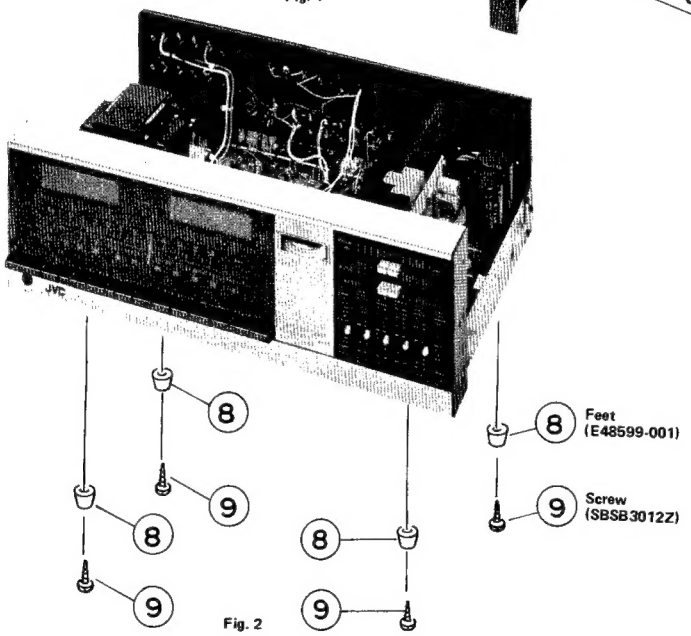


Fig. 2

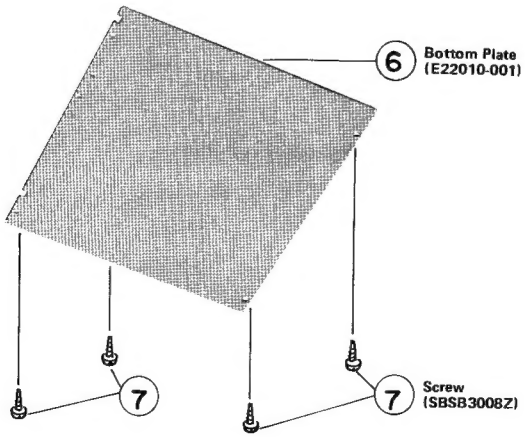


Fig. 3

3. Main Parts Location and Part Numbers

Top View

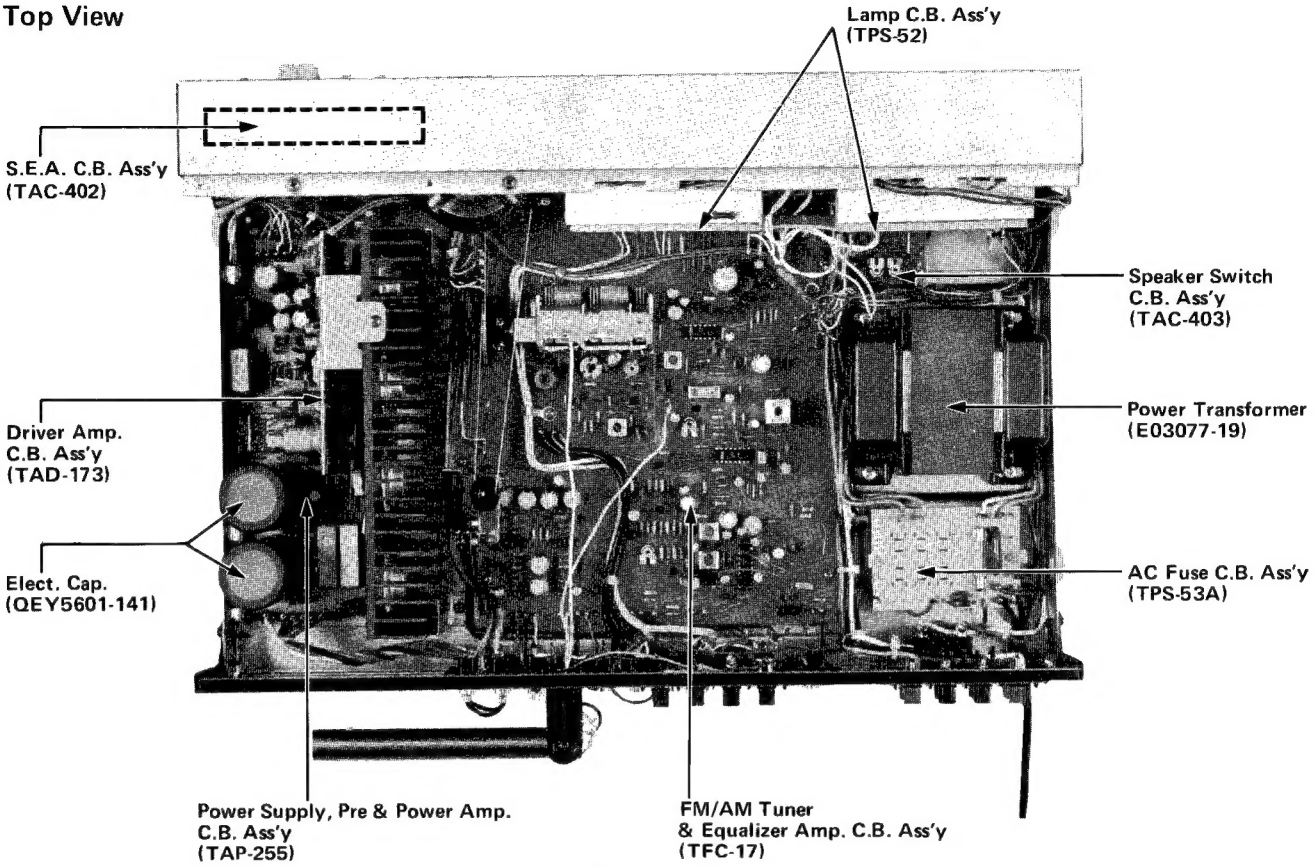


Fig. 4

Bottom View

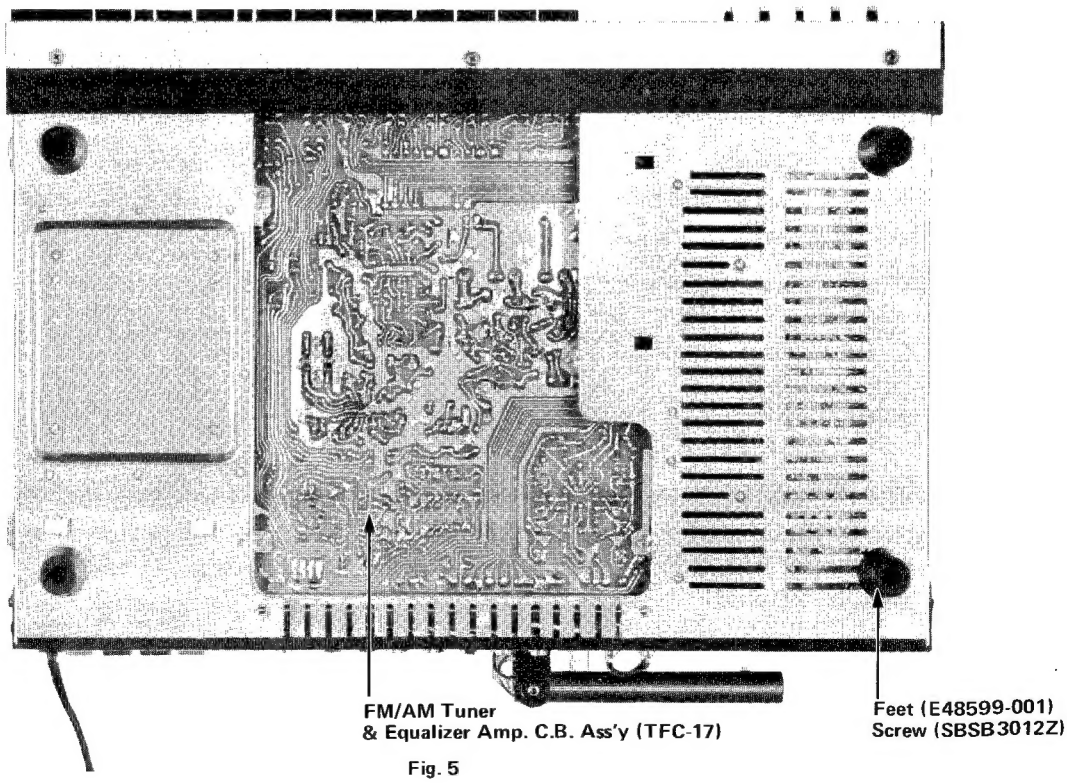


Fig. 5

4. Exploded View and Parts List

4-(1) Front Panel

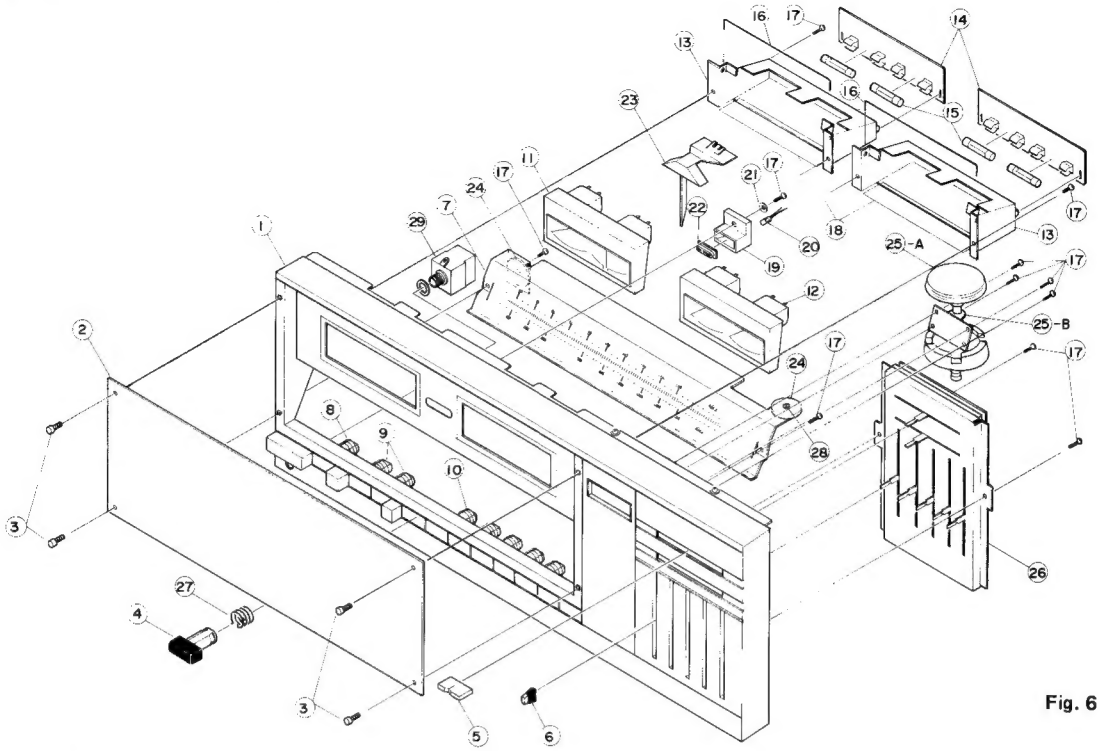


Fig. 6

Parts List

Item No.	Part Number	Rating	Description	Q'ty
1	E10081-001		Front Panel Ass'y	1
2	E22007-001		Window Screen	1
3	E60919-001		Volt Screw	4
4	E60875-001		Pushbutton	11
5	E60880-001		Slide Knob	2
6	E60879-001		S.E.A. Knob	5
7	E22006-001		Dial Scale	1
* 8	QSU1135-001		Power Switch	1
9	QSP0229-004		Push Switch	1
10	QSP0289-101		Push Switch	1
11	E03680-101		Tuning Meter	1
12	E03680-102		Power Meter	1
13	E34423-001		Meter Holder	2
14	TPS-52		Lamp C.B. Ass'y	1
15	QLP4101-004		Pilot Lamp	4
16	E60872-001		Special Spring	2
17	SBSB3010Z		Tapping Screw	11
18	E46855-039		Color Screen	2
19	E60874-001		Reflector	1
20	QLP3105-001		Indicator Lamp	1
21	Q03091-105		Washer	1
22	E60873-001		Stereo Indicator	1
23	E34422-001		Dial Pointer Ass'y	1
24	E45017-001		Roller	2
25-A	E60869-001		Tuning Knob	1
25-B	E34420-001		Tuning Shaft Ass'y	1
26	TAC-402		S.E.A. C.B. Ass'y	1
27	E60876-001		Coil Spring	11
28	E49447-001		Shaft Screw	2
29	QMS6301-001		Headphone Jack Ass'y	1

4-(2) Rear Panel

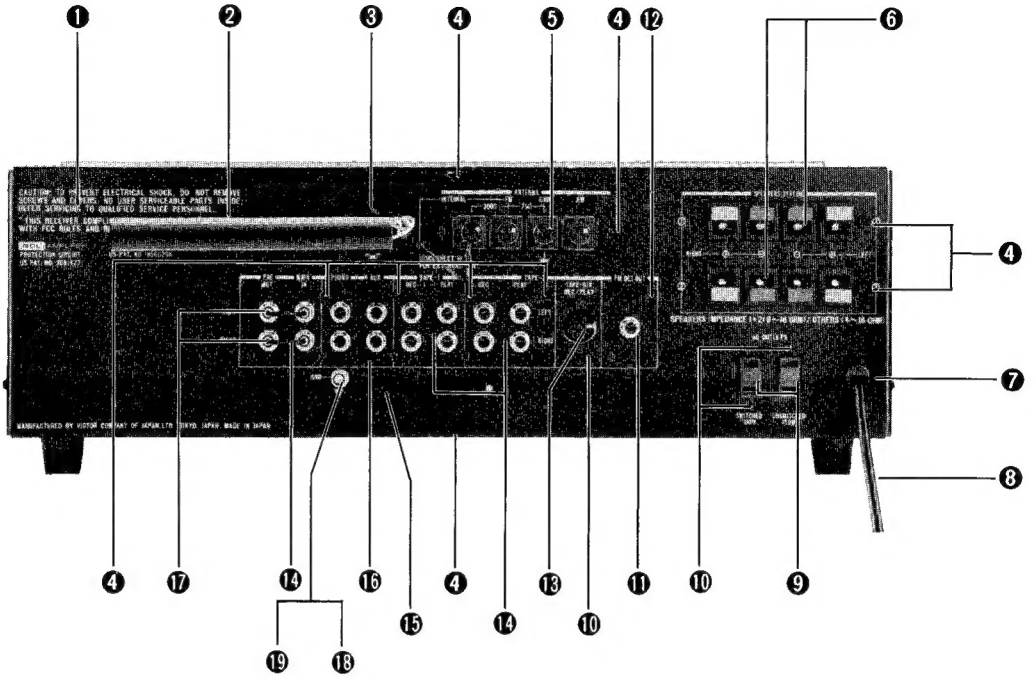


Fig. 7

Parts List

Item No.	Part Number	Rating	Description	Q'ty
1	E10085-001		Rear Panel	1
2	E03037-33UD		Bar Antenna Coil	1
3	E49695-002		Bar Antenna Bracket	1
4	SBSB3008M		Tapping Screw	15
5	E03572-004B		Antenna Terminal Board	1
6	E03572-008		Speaker Terminal Board	2
* 7	QHS3876-162		Cord Stopper	1
* 8	QMP1200-244		Power Cord	1
* 9	QMC0437-001		AC Socket	2
10	SPSP3008M		Screw	4
11	E03591-10		Pin Jack Ass'y	1
12	SPSD3008MS		Tapping Screw	2
13	QMC0589-001UB		DIN Socket	1
14	E03591-41C		Pin Jack	3
15	SBSB3008Z		Tapping Screw	2
16	E03591-40C		Pin Jack	1
17	E60111-001		Pre-Main Jumper	2
18	E49973-001		GND Terminal Ass'y	1
19	E60215-001		GND Washer	1
Others				
	E42803-004		Passed Mark	1
	V40962-3		Caution Tag	1
	QHS3876-162		Bar Antenna Cord Stopper	1

* Different in different areas. Refer to page 34.

5. Dial Stringing Procedure

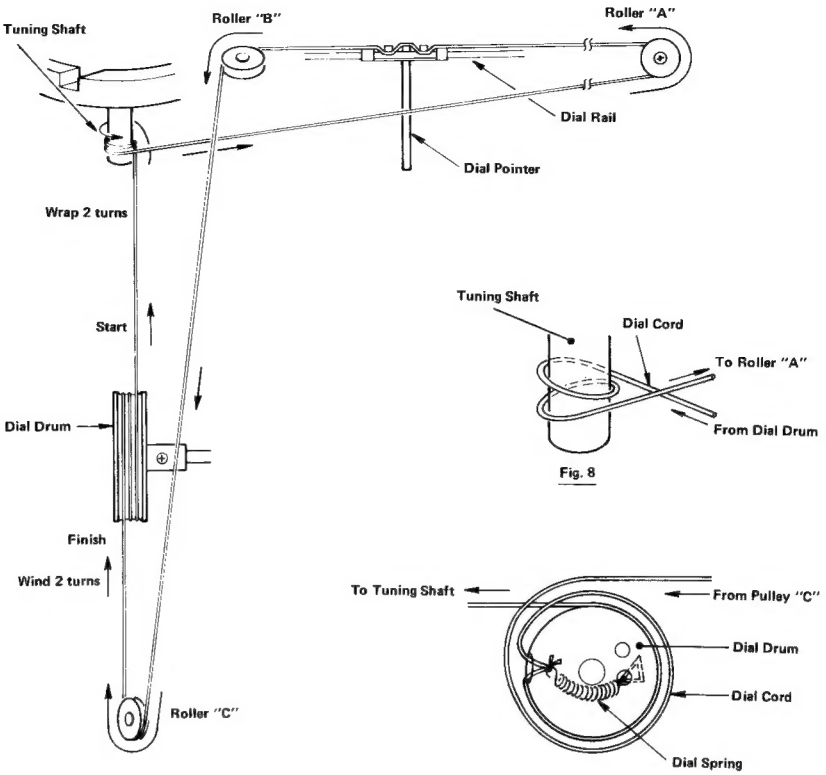


Fig. 8

Fig. 9

Removing heat sink and power supply C.B. ass'y

Top View

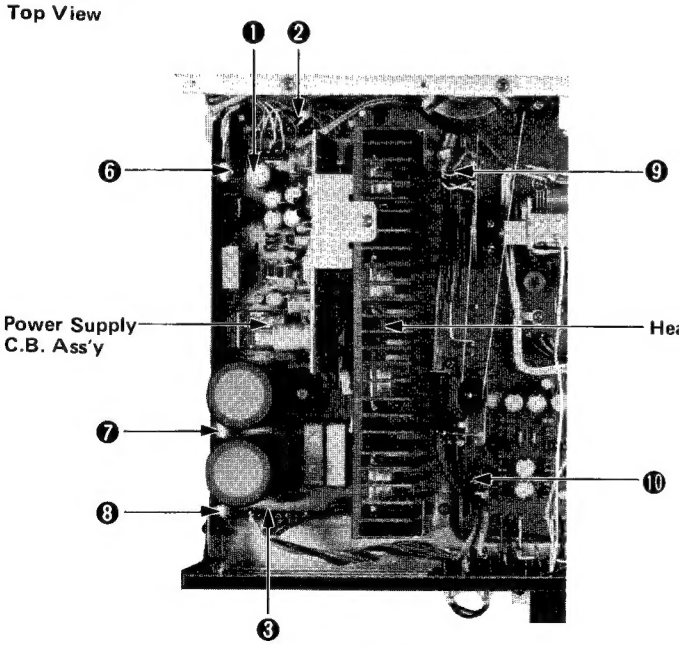


Fig. 10

Bottom View

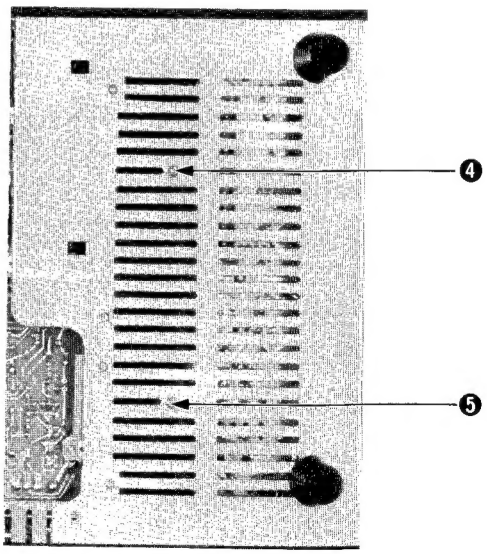


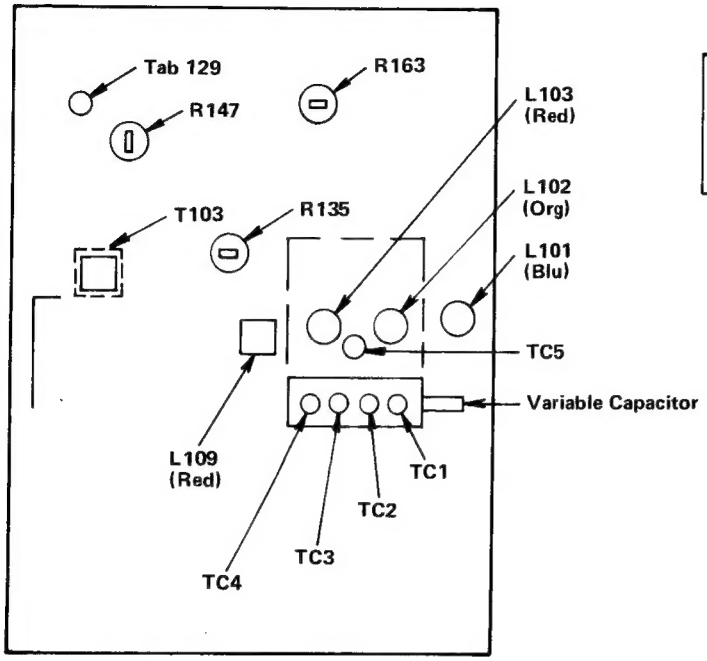
Fig. 11

Remove plugs and screws according to steps below:
Step 1: 3 plugs (Item No. 1, No. 2 & No. 3)
Step 2: 2 screws (Item No. 4 & No. 5)
Step 3: 5 screws (Item No. 6 through No. 10)

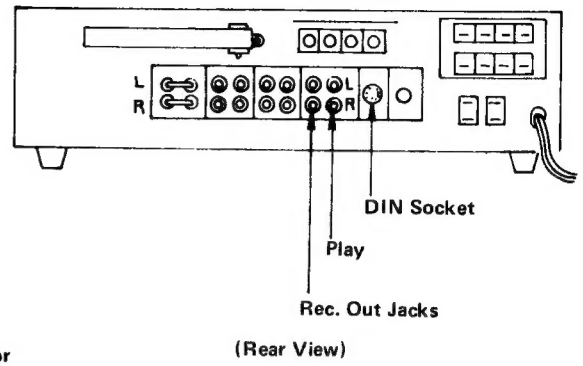
(1) Remove heat sink and power supply C.B. ass'y, see Figs. 10 & 11.
(2) Remove dial pointer and old dial cord.
(3) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum, see Fig. 9.
(4) Rotate the tuning capacitor dial drum to its maximum clockwise.
(5) Run the dial cord through the slot in the rim of the dial drum.
(6) Pull dial cord taut and wrap 2 turns counterclockwise around tuning shaft. Refer to Fig. 8.
(7) Guide the dial cord under and around roller "A", around rollers "B" and "C". Keep the dial cord taut during this procedure.
(8) Guide the dial cord over the dial drum and wind 2 turns counterclockwise. See Fig. 9.
(9) Turn the tuning shaft to rotate the dial drum fully counterclockwise and fully clockwise to distribute the tensioning along the dial cord.
(10) Place the dial cord over and under the tabs on the rear of the dial pointer (see detail) and place the pointer on the top of the dial panel rail.
(11) Turn the tuning shaft clockwise. Slide the dial pointer to zero (0) calibration marker on the logging scale while holding tuning shaft fully clockwise. Cement the dial pointer to dial cord to prevent slippage. Allow cement to dry thoroughly.
(12) Reinstall the heat sink and power supply C.B. ass'y. Reconnect all plugs (removed previously) to their respective sockets.
(13) Check dial calibration. Refer to FM/AM alignment.
(14) Replace top cover.

6. FM/AM Tuner Alignment Procedures

Alignment locations for FM/AM Tuner sections



TFC-17 (FM/AM Tuner & Equalizer Amp. C.B. Ass'y)



(Rear View)

Fig. 12

6-(1) FM Section

Discriminator, Center Meter & Distortion

1. Connect an RF generator, 1kHz modulation and 75kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the Rec. Out Jacks on the rear panel.
3. Tune to a frequency where there is no broadcasting.
4. Adjust the bottom core of T103 so that the center meter indicates "0" (zero).
5. Set the generator to 98MHz.
6. Set the dial pointer to 98MHz.
7. Adjust the top core of T103 so that the distortion is minimized at a value less than 0.4%.

Tracking and Sensitivity

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF generator to 88MHz, a modulation of 1kHz and a deviation of 75kHz, to provide an input of 2μV.
3. Connect a VTVM and an oscilloscope to the Rec. Out Jacks on the rear panel.
4. Set the dial pointer to 88MHz.
5. Adjust three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequency

6. Set the RF generator to 108MHz, a modulation of 1kHz and a deviation of 75MHz, to provide an input of 2μV.
7. Set the dial pointer to 108MHz.
8. Adjust the FM trimmers TC5, TC3 and TC1 in the tuning gang to maximize the output.
9. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

Muting Level

1. Connect a VTVM and an oscilloscope to the Rec. Out Jacks.
2. Set the RF generator to 108MHz, a modulation of 1kHz and a deviation of 75kHz, to provide an input of 10μV.
3. Turn R135 clockwise and remember the point at which the muting ceases operating.
4. Turn R135 counterclockwise slightly so that the output level drops by 1dB.
5. Attenuate the output of the RF generator to 2dB from 10μV of Step 2 and check that the muting is still operating.

Multiplex

1. Set a stereo signal generator as follows: Modulation frequency 1,000Hz, Deviation pilot 7.5kHz, Main and Sub. 67.5kHz. Connect its output of an RF generator.
2. Connect the RF generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, an oscilloscope and a distortion meter to the Rec. Out Jacks.
4. Set the RF generator to 98MHz and an output of 1mV.
5. Set the dial pointer to 98MHz.
6. Connect a frequency counter to Tab No. 129.
7. Switch off the pilot signal of the stereo modulator.
8. Adjust R147 so that the frequency counter indicates 19kHz (±0.01kHz).

Stereo Separation

9. Switch the selector of the stereo modulator to left channel modulation.
10. Adjust R163 so that the output of the right channel is minimized.
11. Switch the selector of the modulator to right channel modulation.
12. Adjust R163 so that the output of the left channel is minimized.
13. Set R163 to average, if the separation of right and left are different.

Note: Keep the muting pushbutton out during this adjustment procedure of stereo separation.

6-(2) AM Section

Tracking and Sensitivity

Low Frequency

1. Connect an RF generator to the antenna terminals on the rear panel, set this to 600kHz with 30% modulation at 400Hz.
2. Connect an AC VTVM and an oscilloscope to Rec. Out Jacks on the rear panel.
3. Set the dial pointer to 600kHz.
4. Adjust Osc. transformer L109 and the ferrite bar antenna to maximize the output signal.

High Frequency

5. Set the RF generator to 1,400kHz with 30% modulation at 400Hz.
6. Set the dial pointer to 1,400kHz.
7. Adjust the trimmers TC4 and TC2 in the AM tuning gang so that the output signal is maximized.
8. Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

7. Power Amplifier Adjustment Procedures

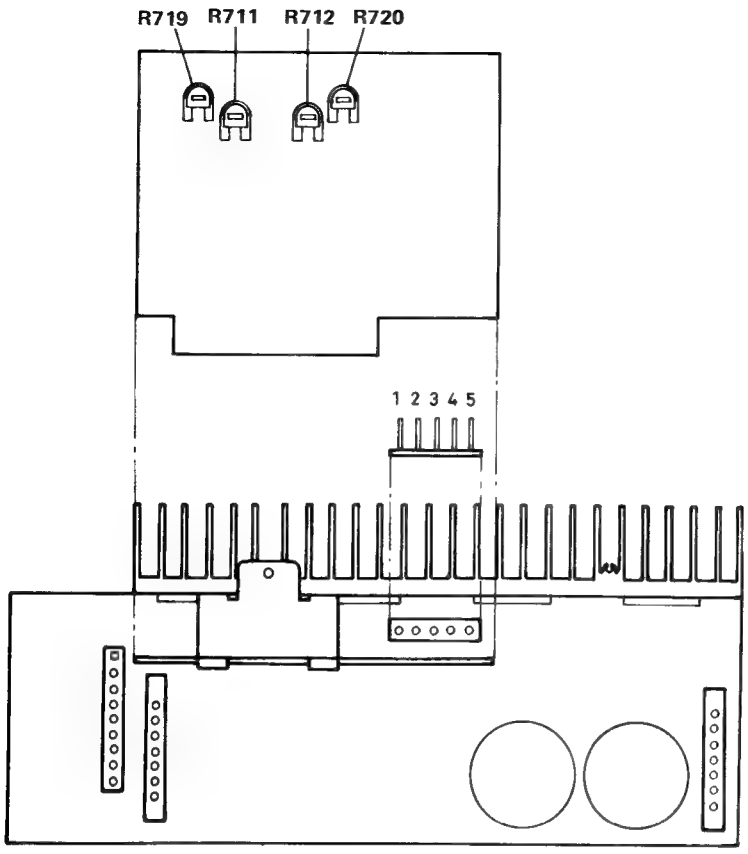


Fig. 13

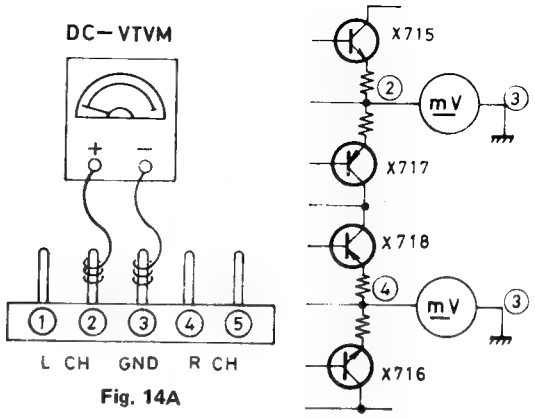


Fig. 14A

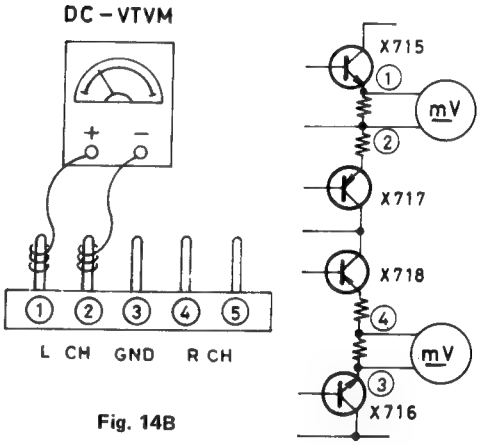


Fig. 14B

( ): For right channel adjustment
Precaution: Allow set to warm up at least 5 minutes before connecting DC VTVM.

7-(1) Center Voltage

1. Tune volume control to minimum.
2. Connect ground lead of DC VTVM to pin 3 (pin 3) and connect probe of DC VTVM to pin 2 (pin 4). Refer to Fig. 14A.
3. Adjust R711 (R712). Meter should read 0 (±0.05) volt. Refer to Fig. 13.

7-(2) Idling Current

4. Connect ground lead of DC VTVM to pin 2 (pin 4) and connect probe of DC VTVM to pin 1 (pin 5). Refer to Fig. 14B.
5. Adjust pot R719 (R720) for DC VTVM reading of 10mV. Refer to Fig. 13.

8. Circuit Board Ass'y Locations and Parts List

8-(1) TFC-17 FM/AM Tuner & Equalizer Amp. C.B. Ass'y.

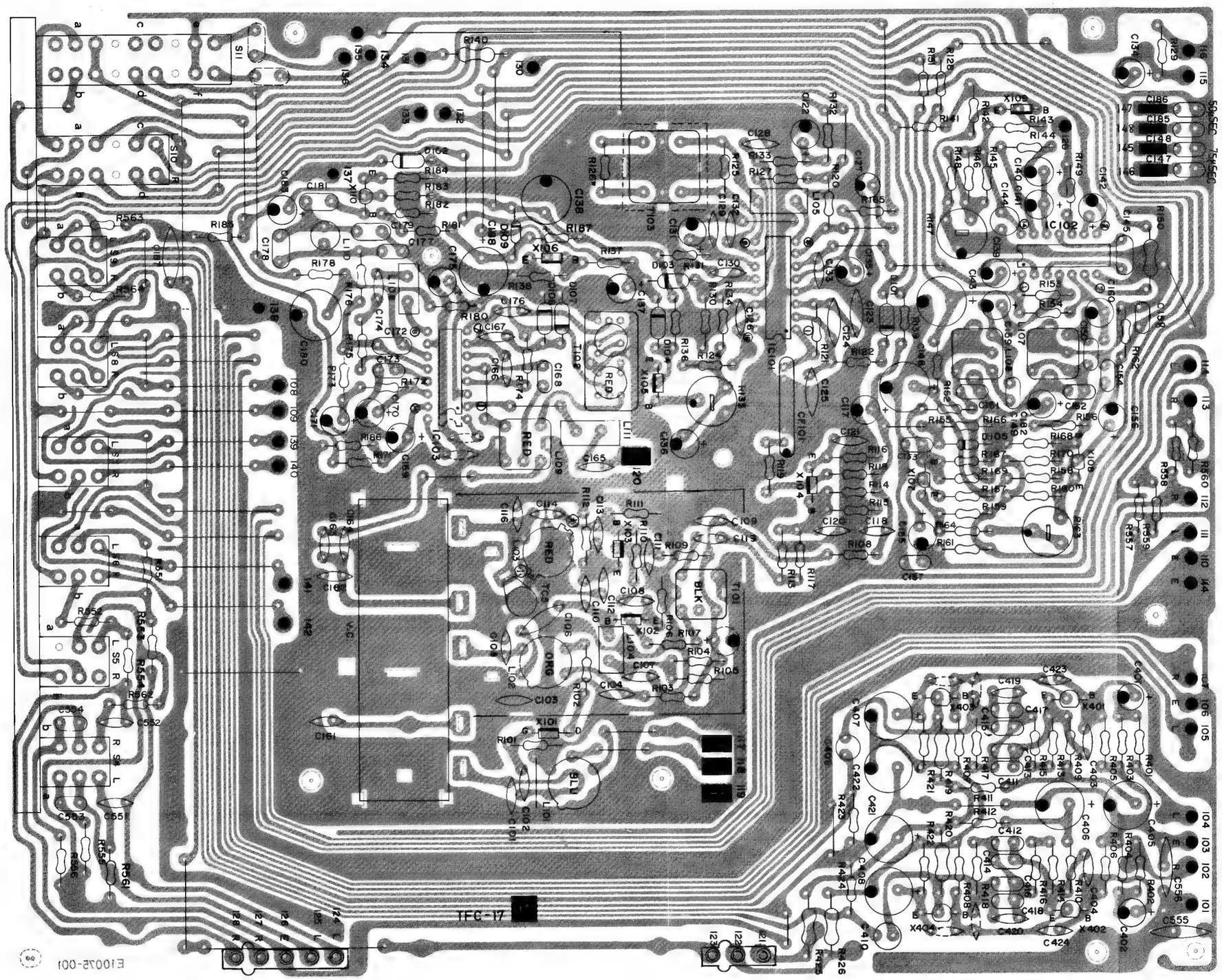


Fig. 15

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X101	2SK55D	IDSS: 14mA, NF: 3.5dB (f=100MHz)		FE Transistor	Hitachi
X102	2SC535 (B, C)	100mW	700MHz	Silicon Transistor	"
X103	2SC1342 (B, C)	"	250MHz	"	"
X104	2SC461 (C)	200mW	230MHz	"	"
X105	2SC458 (C)	250mW	"	"	"
X106	"	"	"	"	"
X107	2SC1775AV (F)	300mW	200MHz	"	"
X108	"	"	"	"	"
X109	2SC458 (C)	200mW	230MHz	"	"
X110	2SC1775AV (F)	300mW	200MHz	"	"
X401	2SA872AV(E)	"	"	"	"
X402	"	"	"	"	"
X403	2SC1775AV(F)	"	"	"	"
X404	"	"	"	"	"

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC101	HA1137W	550mW	Integrated Circuit FM IF DET	Hitachi
IC102	HA1156W	400mW	" MPX	"
IC103	HA1151	500mW	" AM IF DET	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D101	1S2473		Diode	Toyo Dengu
D102	"		"	"
D103	"		"	"
D104	"		"	"
D105	"		"	"
D107	"		"	"
D108	"		"	"
D109	"		"	"

Coils

Item No.	Part Number	Rating	Description	Maker
L101	E03477-024		RF Coil	
L102	E03477-35		"	
L103	E03477-026		"	
L104	E03522-2R2KY	2.2μH	Choke Coil	
L105	E03522-180J	18μH	FM Det. Coil	
L106	E03407-005		MPX Coil	
L107	"		"	
L108	E03522-391KY	390μH	Choke Coil	
L109	E03079-29		AM OSC Coil	
L111	E03522-2R2KY	2.2μH	Choke Coil	
T101	E03078-39		I.F. Transformer	
T102	E03613-002		AM I.F. Transformer	
T103	E03134-020		FM Det. Transformer	

Capacitors

Item No.	Part Number	Rating		Description
C101	QCS11HJ-180	18pF	50V	Ceramic
C102	QCS11HJ-101	100pF	"	"
C104	QCF11HP-103U	0.01μF	"	"
C105	QCS11HJ-180	18pF	"	"
C106	QCS11HJ-100	10pF	"	"
C107	QCS11HJ-101	100pF	"	"
C108	QCF11HP-103U	0.01μF	"	"
C109	"	"	"	"
C110	QCS11HJ-4RO	4pF	"	"
C111	QCF11HJ-103U	0.01μF	"	"
C112	QCT05CH-100	10pF	16V	"
C113	QCT05CH-220	22pF	"	"
C114	QCT05CH-7RO	7pF	"	"
C116	QCT05SH-220	22pF	50V	"
C117	QEW41CA-106	10μF	16V	Electrolytic
C118	QCF11HP-223A	0.022μF	50V	Ceramic
C119	QCF11HP-223	0.022	"	"
C120	QCS11HJ-470	47pF	"	"
C121	QCF11HP-223A	0.023μF	"	"
C122	QEW41AA-476	47μF	10V	"
C123	QCZ0107-473	0.047μF	25V	"
C124	"	"	"	"
C125	"	"	"	"
C126	QCF11HP-223A	0.022μF	50V	"
C127	QEW41HA-105	1μF	"	Electrolytic
C128	QCF11HP-223A	0.022μF	"	Ceramic
C129	"	"	"	"
C130	"	"	"	"
C131	QEW41CA-106	10μF	16V	Electrolytic
C132	QCF11HP-223A	0.022μF	50V	Ceramic
C133	QCS11HJ-330	33pF	"	"
C134	QEW41EA-475	4.7μF	25V	Electrolytic
C135	QEW41CA-106	10μF	16V	"
C136	QEW41HA-474	0.47μF	50V	"
C137	QEW41HA-105	1μF	"	"
C138	QEW41CA-227	220μF	16V	"
C139	QEW41EA-475	4.7μF	25V	"
C140	QEB41EM-106	10μF	25V	L.L.C. Electrolytic
C141	QEB41HM-224	0.22μF	50V	"
C142	QEB41HM-105	1μF	"	"
C143	QEW41CA-107	100μF	16V	Electrolytic
C144	QFS42BJ-471	470pF	50V	Polystyrene
C145	QFM41HK-473	0.047μF	"	Mylar
C146	QEW41CA-476	47μF	16V	Electrolytic
C147	QFM41HJ-153	0.015μF	50V	Mylar
C148	"	"	"	"
C149	QFM41HK-182	1800pF	"	"
C150	"	"	"	"
C151	QFM41HK-102	1000pF	"	"
C152	"	"	"	"
C153	QFM41HK-472	4700pF	"	"
C154	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C155	QEB41HM-224	0.22μF	50V	L.L.C. Electrolytic
C156	"	"	"	"
C157	QFM41HK-562	5600pF	"	Mylar
C158	"	"	"	"
C159	QEW41EA-474	0.47μF	25V	Electrolytic
C160	"	"	"	"
C161	QCS11HJ-5RO	5pF	50V	Ceramic
C162	QCS11HJ-150	15pF	"	"
C163	QCS11HJ-331	330pF	"	"
C164	QCS11HJ-150	15pF	"	"
C165	QCF11HP-223A	0.022μF	"	"
C166	"	"	"	"
C167	"	"	"	"
C168	QFM41HK-103	0.01μF	"	Mylar
C169	QEW41AA-476	47μF	10V	Electrolytic
C170	QEW41HA-105	1μF	50V	"
C171	QEW41EA-106	10μF	25V	"
C172	QFM41HK-223	0.022μF	50V	Mylar
C173	QFM41HK-102	1000pF	"	"
C174	QCS11HJ-331	330pF	"	Ceramic
C175	QEW41CA-106	10μF	16V	Electrolytic
C176	QCF11HP-223A	0.022μF	50V	Ceramic
C177	QFM41HK-392	3900pF	"	Mylar
C180	QEW41CA-477	470μF	16V	"
C181	QFM41HK-183	0.018μF	50V	"
C182	QEW41CA-106	10μF	16V	Electrolytic
C183	QEW41HA-105	1μF	50V	"
C185	QFM41HJ-562	5600pF	50V	Mylar
C186	"	"	"	"
C187	QCF11HP-473	0.047μF	"	Ceramic
C188	QEW40JA-227	220μF	6.3V	Electrolytic
C401	QEB41EM-225	2.2μF	25V	L.L.C. Electrolytic
C402	"	"	"	"
C403	QCS11HJ-471	470pF	50V	Ceramic
C404	"	"	"	"
C405	QEW40JA-227	220μF	6.3V	Electrolytic
C406	"	"	"	"
C407	"	"	"	"
C408	"	"	"	"
C409	QEZ0046-105	1μF	50V	"
C410	"	"	"	"
C411	QFM41HK-123	0.012μF	50V	Mylar
C412	"	"	"	"
C413	QFM41HK-272	2700pF	"	"
C414	"	"	"	"
C415	"	"	"	"
C416	"	"	"	"
C417	QFM41HK-152	1500pF	"	"
C418	"	"	"	"
C419	QCS11HJ-181	180pF	"	Ceramic
C420	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C421	QEW41VA-107	100μF	35V	Electrolytic
C422	"	"	"	"
C423	QCS11HJ-220	22pF	50V	Ceramic
C424	"	"	"	"
C551	QCS11HJ-271	270pF	"	"
C552	"	"	"	"
C553	QFM41HK-273	0.027μF	"	Mylar
C554	"	"	"	"
C555	QCS11HP-473	0.047μF	50V	Ceramic
C556	"	"	"	"
CF101	E03609-001			Ceramic Filter
TC5	QAT3001-005			Trimmer

Resistors

Item No.	Part Number	Rating		Description
R101	QRD181J-105	1MΩ	1/8W	Carbon
R102	" -470	47Ω	"	"
R103	" -101	100Ω	"	"
R104	" -223	22kΩ	"	"
R105	" -472	4.7kΩ	"	"
R106	" -102	1kΩ	"	"
R107	" -101	100Ω	"	"
R108	" -470	47Ω	"	"
R109	" -561	560Ω	"	"
R110	" -103	10kΩ	"	"
R111	" "	"	"	"
R112	" -222	2.2kΩ	"	"
R114	" -332	3.3kΩ	"	"
R115	" -472	4.7kΩ	"	"
R116	" -102	1kΩ	"	"
R117	" -101	100Ω	"	"
R118	" -271	270Ω	"	"
R119	" "	"	"	"
R120	" "	"	"	"
R121	" -331	330Ω	"	"
R122	" -474	470kΩ	"	"
R123	" -104	100kΩ	"	"
R124	" "	"	"	"
R125	" -562	5.6kΩ	"	"
R126	" -332	3.3kΩ	"	"
R127	" -822	8.2kΩ	"	"
R128	" -223	22kΩ	"	"
R129	" -473	47kΩ	"	"
R130	" "	"	"	"
R131	" -100	10Ω	"	"
R132	" -222	2.2kΩ	"	"
R133	" -103	10kΩ	"	"
R134	" "	"	"	"
R135	QVP4AOB-473	47kΩ		Variable

Resistors

Item No.	Part Number	Rating		Description
R136	QRD181J-123	12kΩ	1/8W	Carbon
R137	" -103	10kΩ	"	"
R138	" "	"	"	"
R139	" -100	10Ω	"	"
R140	" "	"	"	"
R141	" -103	10kΩ	"	"
R142	" -392	3.9kΩ	"	"
R143	" "	"	"	"
R144	" -102	1kΩ	"	"
R145	" -394	390kΩ	"	"
R146	" -183	18kΩ	"	"
R147	QVP4AOB-472	4.7kΩ		Variable
R148	QRD181J-153	15kΩ	1/8W	Carbon
R149	" -105	1MΩ	"	"
R150	QRD126J-181	180Ω	1/2W	Unflamable Carbon
R151	QRD181J-101	100Ω	1/8W	Carbon
R152	" -470	47Ω	"	"
R153	" -392	3.9kΩ	"	"
R154	" "	"	"	"
R155	" -222	2.2kΩ	"	"
R156	" "	"	"	"
R157	" -472	4.7kΩ	"	"
R158	" "	"	"	"
R159	" -821	820Ω	"	"
R160	" "	"	"	"
R161	" -104	"	"	"
R162	" "	"	"	"
R163	QVP4AOB-473	47kΩ		Variable
R164	QRD181J-822	8.2kΩ	1/8W	Carbon
R165	" -123	12kΩ	"	"
R166	QRD181J-333	33kΩ	"	"
R167	" -184	180kΩ	"	"
R168	" "	"	"	"
R169	" -393	39kΩ	"	"
R170	" "	"	"	"
R171	" -681	680Ω	"	"
R172	" -103	10kΩ	"	"
R173	" "	"	"	"
R174	" -472	4.7kΩ	"	"
R175	" -331	330Ω	"	"
R176	" -473	47kΩ	"	"
R178	" -271	270Ω	"	"
R180	" -151	150Ω	"	"
R181	" -683	68kΩ	"	"
R182	" -393	39kΩ	"	"
R183	" -822	8.2kΩ	"	"
R184	" -222	2.2kΩ	"	"
R185	" -104	100kΩ	"	"
R186	" -472	4.7kΩ	"	"
R187	" -154	150kΩ	"	"
R401	" -222	2.2kΩ	"	"
R402	" "	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R403	QRD181J-104	100kΩ	1/8W	Carbon
R404	" "	"	"	"
R405	" "	"	"	"
R406	" "	"	"	"
R407	" -683	68kΩ	"	"
R408	" "	"	"	"
R409	" -331	330Ω	"	"
R410	" "	"	"	"
R411	" -334	330kΩ	"	"
R412	" "	"	"	"
R413	" -224	220kΩ	"	"
R414	" "	"	"	"
R415	" -333	33kΩ	"	"
R416	" "	"	"	"
R417	" -183	18kΩ	"	"
R418	" "	"	"	"
R419	QRD126J-682	6.8kΩ	1/2W	Unflamable Carbon
R420	" "	"	"	"
R421	QRD181J-102	1kΩ	1/8W	Carbon
R422	" "	"	"	"
R423	" -104	100kΩ	"	"
R424	" "	"	"	"
R425	QRD126J-101	100Ω	1/2W	Unflamable Carbon
R426	" "	"	"	"
R551	QRD181J-332	3.3kΩ	1/8W	Carbon
R552	" "	"	"	"
R553	" "	"	"	"
R554	" "	"	"	"
R555	" -153	15kΩ	"	"
R556	" "	"	"	"
R557	" -124	120kΩ	"	"
R558	" "	"	"	"
R559	" -104	100kΩ	"	"
R560	" "	"	"	"
R561	" -564	560kΩ	"	"
R562	" "	"	"	"
R563	" -471	470Ω	"	"
R564	" "	"	"	"

Others

Item No.	Part Number	Rating	Description
	E33535-004		Shield Cover (Front End)
	QSP0289-101		Push Switch

8-(2) TPS-52 Lamp C.B. Ass'y

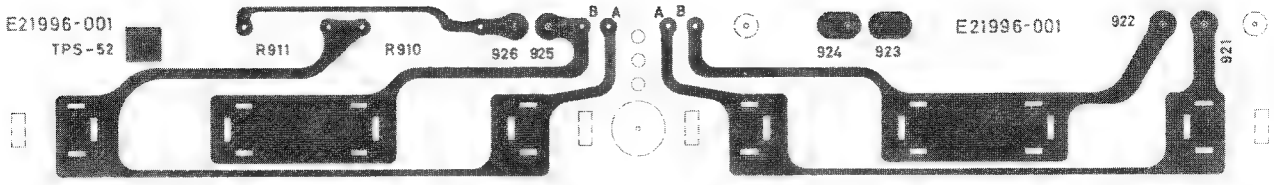


Fig. 16

Resistors

Item No.	Part Number	Rating		Description
R910	QRG016J-680	68Ω	1W	O.M.F.
R911	QRD126J-681	680Ω	1/2W	Unflamable Carbon

Other

Item No.	Part Number	Rating	Description
	E45524-001		Contact Clip

8-(3) TPS-53A AC Fuse C.B. Ass'y

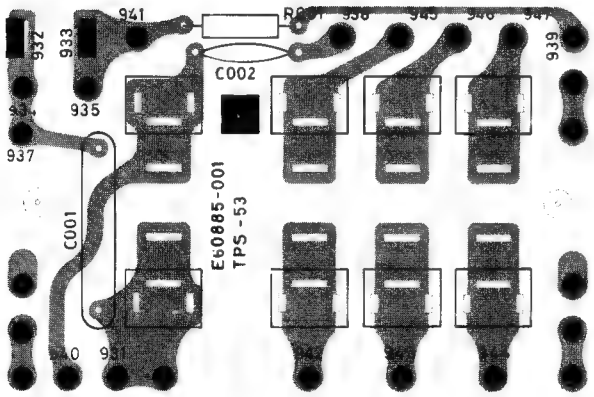


Fig. 17

Different assemblies are used in units intended for different areas. Make sure of where the unit was sold. Refer to page 34.

Capacitors

Item No.	Part Number	Rating		Description
C002	QCZ9008-101	100pF	500V	Ceramic
C001	QFH53AM-103M	0.01μF	1000V	Metalized Mylar

Resistor

Item No.	Part Number	Rating		Description
R001	QRC121k-275E	2.7MΩ	1/2W	Composition

Other

Item No.	Part Number	Rating	Description
	QMF61U1-4RO	4A	Fuse (To be ordered separately)

8-(4) TAD-173 Driver Amp. C.B. Ass'y

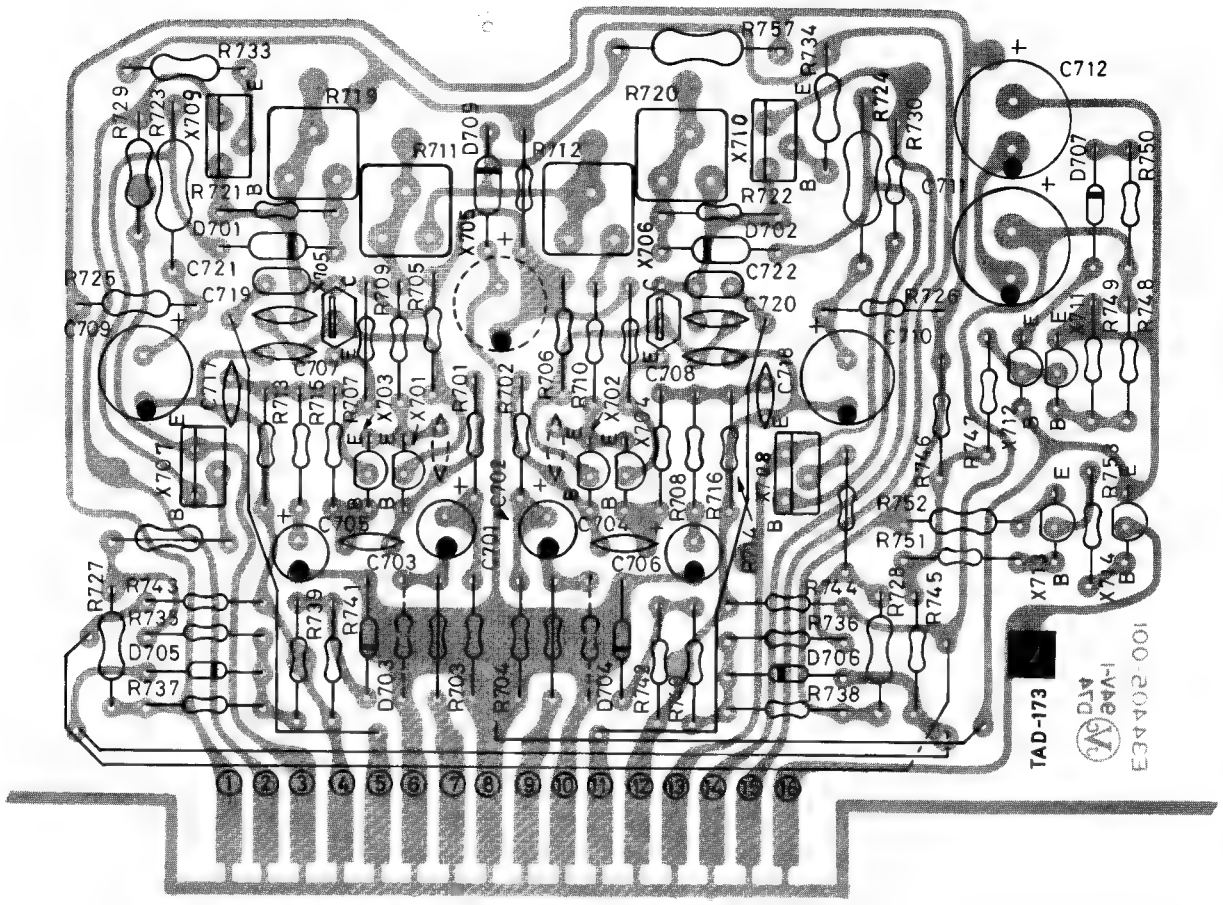


Fig. 18

Transistors

Item No.	Part Number	Rating			Description	Maker
		V_{CEO}	Pc	f_T		
X701	2SA872AV(E)	120V	300mW	200MHz	Silicon Transistor	Hitachi
X702	"	"	"	"	"	"
X703	"	"	"	"	"	"
X704	"	"	"	"	"	"
X705	2SC1628(Y)	150V	1W	40MHz	"	Toshiba
X706	"	"	"	"	"	"
X707	2SD381(L,M)	120V	20W	60MHz	"	NEC
X708	"	"	"	"	"	"
X709	2SB536(L,M)	"	"	"	"	"
X710	"	"	"	"	"	"
X711	2SC1775AV(F)	"	300mW	200MHz	"	Hitachi
X712	"	"	"	"	"	"
X713	2SA872AV(E)	"	"	"	"	"
X714	2SC1775AV(F)	"	"	"	"	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D701	SV03		Silicon Varistor	Sanken
D702	"		"	"
D703	1S2473		Silicon Diode	Tojo Dengu
D704	"		"	"
D705	"		"	"
D706	"		"	"
D707	"		"	"
D709	E0771-10		Zener Diode WZ-090 7V	JRC

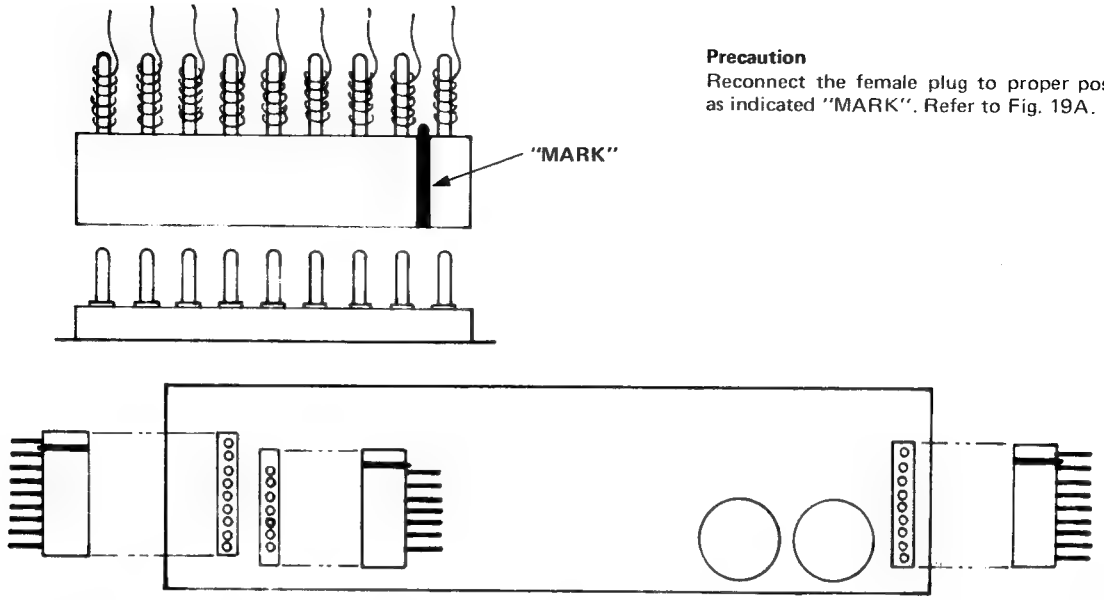
Capacitors

Item No.	Part Number	Rating		Description
C701	QEW41HA-474	0.047μF	50V	Electrolytic
C702	"	"	"	"
C703	QCS11HJ-391	390pF	"	Ceramic
C704	"	"	"	"
C705	QEW41AA-106	10μF	16V	Electrolytic
C706	"	"	"	"
C707	QCS12HJ-100	10pF	500V	Ceramic
C708	"	"	"	"
C709	QEW41HA-476	47μF	50V	Electrolytic
C710	"	"	"	"
C711	QEW41AA-477	470μF	10V	"
C712	"	"	"	"
C717	QSC11HJ-220	22pF	50V	Ceramic
C718	"	"	"	"
C719	QCS12HJ-5RO	5pF	500V	"
C720	"	"	"	"
C721	QFM41HK-333	0.033μF	50V	Mylar
C722	"	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R701	QRD141J-152	1.5kΩ	1/4W	Carbon
R702	"	"	"	"
R703	QRD141J-563	56kΩ	"	"
R704	"	"	"	"
R705	QRD141J-182	1.8kΩ	"	"
R706	"	"	"	"
R707	QRD141J-152	1.5kΩ	"	"
R708	"	"	"	"
R709	QRD141J-822	8.2kΩ	"	"
R710	"	"	"	"
R711	QVP9AOB-472	4.7kΩ		Variable
R712	"	"		"
R713	QRD141J-563	56kΩ	1/4W	Carbon
R714	"	"	"	"
R715	QRD141J-332	3.3kΩ	"	"
R716	"	"	"	"
R719	QVP9AOB-221	220Ω		Variable
R720	"	"		"
R721	QRD141J-121	120Ω	1/4W	Carbon
R722	"	"	"	"
R723	QRG016J-392	3.9kΩ	1W	O.M.F.
R724	"	"	"	"
R725	QRG129J-272	2.7kΩ	1/2W	Unflamable O.M.F.
R726	"	"	"	"
R727	QRX129J-100	10Ω	"	"
R728	"	"	"	"
R729	QRG129J-221	220Ω	"	"
R730	"	"	"	"
R733	QRG129J-100	10Ω	"	"
R734	"	"	"	"
R735	QRD141J-272	2.7kΩ	1/4W	Carbon
R736	"	"	"	"
R737	QRD141J-332	3.3kΩ	"	"
R738	"	"	"	"
R739	QRD141J-473	47kΩ	"	"
R740	"	"	"	"
R741	QRD141J-472	4.7kΩ	"	"
R472	"	"	"	"
R473	QRD141J-103	10kΩ	"	"
R474	"	"	"	"
R475	"	"	"	"
R746	QRD141J-332	3.3kΩ	"	"
R747	QRD141J-153	15kΩ	"	"
R748	QRD141J-152	1.5kΩ	"	"
R749	QRD141J-392	3.9kΩ	"	"
R750	QRD141J-102	1kΩ	"	"
R751	QRD141J-471	470Ω	"	"
R752	QRG129J-471	"	1/2W	Unflamabale O.M.F.
R753	QRD141J-473	47kΩ	1/4W	Carbon
R757	QRG016J-392	3.9kΩ	1W	Unflamable O.M.F.

8-(5) TAP-255 Power Supply, Pre & Power Amp. C.B. Ass'y



Precaution
Reconnect the female plug to proper position as indicated "MARK". Refer to Fig. 19A.

Fig. 19A

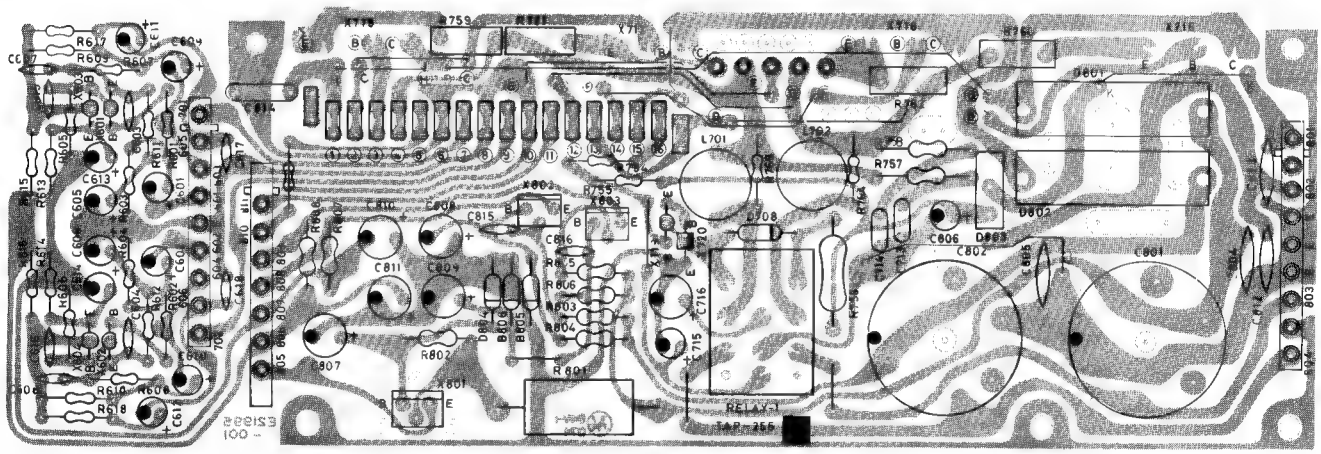


Fig. 19B

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X601	2SA872AV(E)	300mW	200MHz	Silicon Transistor	Hitachi
X602	"	"	"	"	"
X603	2SC1775AV(F)	"	"	"	"
X604	"	"	"	"	"
X715	2SD582(B,C)	100W	3MHz	"	"
X716	"	"	"	"	"
X717	2SB612(B,C)	"	"	"	"
X718	"	"	"	"	"
X719	2SC1775AV(F)	300mW	200MHz	"	"
X720	2SC1213A)C)S	400mW	150MHz	"	"
X801	2SD330V(D,E)	20W	8MHz	"	Sanyo
X802	2SB514V(D,E)	"	"	"	"
X803	2SD330V(D,E)	"	"	"	"

Diodes

Item No.	Part Number	Rating	Description	Maker
D708	1S2473		Diode	Toyo Dengu
D801	SS-3		Silicon Diode	Sanken
D802	SS-3R		〃	〃
D803	ESAB02-02C		〃	Kyodo Denki
D804	E0771-12		Zener Diode 13V	JRC
D805	WZ-280		〃 28V	〃
D806	〃		〃 〃	〃

Coils

Item No.	Part Number	Rating	Description
L701	E04059-2R7	2.7μH	Choke Coil
L702	〃	〃	〃

Capacitors

Item No.	Part Number	Rating		Description
C601	QEB41EM-225	2.2μF	25V	L.L.C. Electrolytic
C602	〃	〃	〃	〃
C603	QCS11HJ-391	390pF	50V	Ceramic
C604	〃	〃	〃	〃
C605	QEW41AA-476	47μF	10V	Electrolytic
C606	〃	〃	〃	〃
C607	QCS11HJ-180	18pF	50V	Ceramic
C608	〃	〃	〃	〃
C609	QEW41AA-476	47μF	10V	Electrolytic
C610	〃	〃	〃	〃
C611	QEZ0046-475	4.7μF	50V	〃
C612	〃	〃	〃	〃
C613	QEW41AA-476	47μF	10V	〃
C614	〃	〃	〃	〃
C615	QCS11HJ-3RO	3pF	50V	Ceramic
C616	〃	〃	〃	〃
C617	QCS11HJ-151	150pF	〃	〃
C618	〃	〃	〃	〃
C713	QFM41HK-473	0.047μF	〃	Mylar
C714	〃	〃	〃	〃
C715	QEW41CA-106	10μF	16V	Electrolytic
C716	QEW40JA-227	220μF	6.3V	〃
C801	QEY5601-141	10000μF	56V	〃
C802	〃	〃	〃	〃
C803	QCF12HP-103	0.01μF	500V	Ceramic
C804	〃	〃	〃	〃
C805	〃	〃	〃	〃
C806	QEW41HA-106	10μF	50V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C807	QEW41VA-227	220μF		〃
C808	QEW41HA-476	47μF	50V	〃
C809	〃	〃	〃	〃
C810	QEW41EA-107	100μF	25V	〃
C811	〃	〃	〃	〃
C812	QCF12HP-103	0.01μF	500V	Ceramic
C813	〃	〃	〃	〃
C814	QFM42AK-224	0.22μF	100V	Mylar
C815	QCF11HP-103	0.01μF	50V	Ceramic
C816	〃	〃		〃

Resistors

Item No.	Part Number	Rating		Description
R601	QRD141J-102	1kΩ	1/4W	Carbon
R602	〃	〃	〃	〃
R603	QRD141J-184	180kΩ	〃	〃
R604	〃	〃	〃	〃
R605	QRD141J-154	150kΩ	〃	〃
R606	〃	〃	〃	〃
R607	QRD141J-682	6.8kΩ	〃	〃
R608	〃	〃	〃	〃
R609	QRD141J-103	10kΩ	〃	〃
R610	〃	〃	〃	〃
R611	QRD141J-222	2.2kΩ	〃	〃
R612	〃	〃	〃	〃
R613	QRD141J-182	1.8kΩ	〃	〃
R614	〃	〃	〃	〃
R615	QRD141J-562	5.6kΩ	〃	〃
R616	〃	〃	〃	〃
R617	〃	〃	〃	〃
R618	〃	〃	〃	〃
R754	QRD141J-560	56Ω	〃	〃
R755	QRD141J-224	220kΩ	〃	〃
R756	QRG026J-391	390Ω	2W	Unflamable Carbon
R757	QRX016J-100	10Ω	1W	Metal Film
R758	〃	〃	〃	〃
R759	QRM054K-R47	0.47Ω	5W	Metal Plate
R760	〃	〃	〃	〃
R761	〃	〃	〃	〃
R762	〃	〃	〃	〃
R763	QRD126J-4R7	4.7Ω	1/2W	Unflamable Carbon
R764	〃	〃	〃	〃
R801	QRF051K-181	180Ω	5W	Cement
R802	QRD126J-332	3.3kΩ	1/2W	Unflamable Carbon
R803	QRG129J-121	120Ω	〃	O.M.F.
R804	QRD126J-472	4.7kΩ	〃	Carbon
R805	QRG129J-121	120Ω	〃	Unflamable O.M.F.
R806	QRD126J-472	4.7kΩ	〃	Carbon
R807	QRG129J-181	180Ω	〃	Unflamable O.M.F.
R808	QRG129J-101	100Ω	〃	〃

Transistors

Item No.	Part Number	Rating	Description
	PT-110		Pair of Transistors (2SD582 & 2SB612)

Others

Item No.	Part Number	Rating	Description
	E22008-001 E60878-001 E60878-002 E03677-002 SBSB30082		Heat Sink Heat Sink Holder " Transistor Socket T. Screw

8-(6) TAC-402 S.E.A. (Sound Effect Amp.) C.B. Ass'y

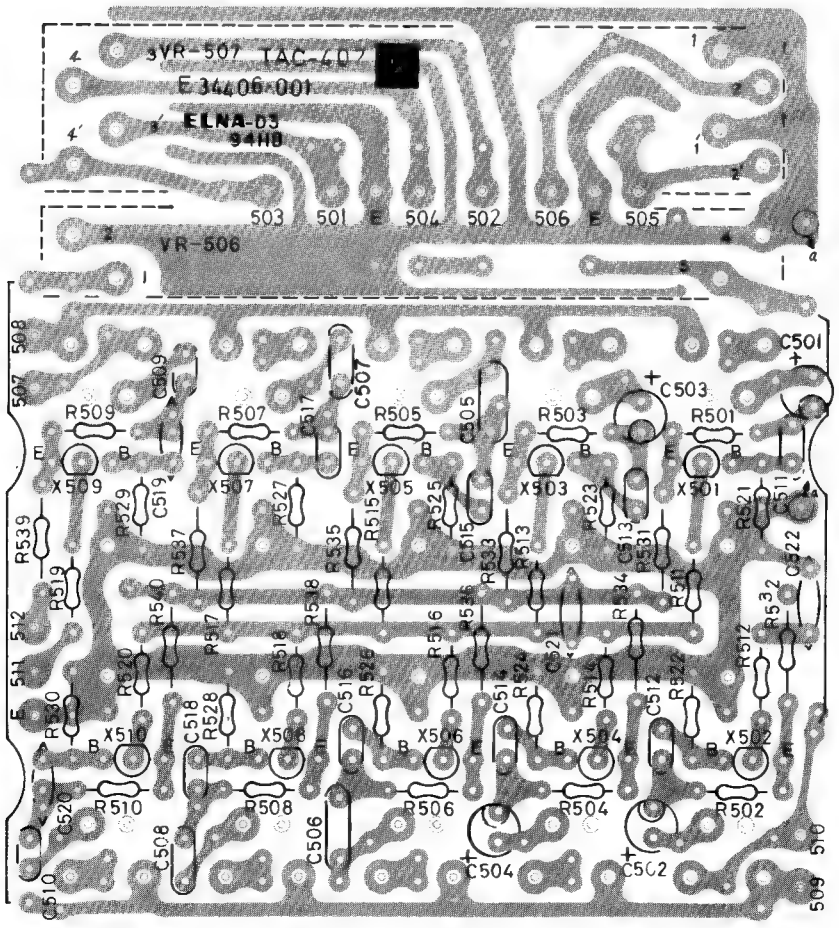


Fig. 20

Transistors

Item No.	Part Number	Rating		Desctiption	Maker
		Pc	f_T		
X501	2SC1775AV(F)	300mW	200MHz	Silicon Transistor	Hitachi
X502	"	"	"	"	"
X503	"	"	"	"	"
X504	"	"	"	"	"
X505	"	"	"	"	"
X506	"	"	"	"	"
X507	"	"	"	"	"
X508	"	"	"	"	"
X510	"	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C501	QEB41EM-475	4.7μF	25V	L.L.C. Electrolytic
C502	"	"	"	"
C503	QEB41EM-474	0.47μF	"	"
C504	"	"	"	"
C505	QFM41HK-124	0.12μF	50V	Mylar
C506	"	"	"	"
C507	QFM41HK-273	0.027μF	"	"
C508	"	"	"	"
C509	QFM41HK-562	5600pF	"	"
C510	"	"	"	"
C511	QFM41HK-223	0.022μF	"	"
C512	"	"	"	"
C513	QFM41HK-822	8200pF	"	"
C514	"	"	"	"
C515	QFM41HK-332	3300pF	"	"
C516	"	"	"	"
C517	QFM41HK-102	1000pF	"	"
C518	"	"	"	"
C519	QCS11HJ-681	680pF	"	Ceramic
C520	"	"	"	"
C521	QCF11HP-473	0.047μF	"	"
C522	"	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R501	QRD181J-122	1.2kΩ	1/8W	Carbon
R502	"	"	"	"
R503	"	"	"	"
R504	"	"	"	"
R505	"	"	"	"
R506	"	"	"	"
R507	"	"	"	"
R508	"	"	"	"
R509	"	"	"	"
R510	"	"	"	"
R511	QRD181J-391	390Ω	"	"
R512	"	"	"	"
R513	"	"	"	"
R514	"	"	"	"
R515	"	"	"	"
R516	"	"	"	"
R517	"	"	"	"
R518	"	"	"	"
R519	"	"	"	"
R520	"	"	"	"
R521	QRD181J-134	130kΩ	"	"
R522	"	"	"	"
R523	QRD181J-913	91kΩ	"	"
R524	"	"	"	"
R525	QRD181J-513	51kΩ	"	"
R526	"	"	"	"
R527	QRD181J-333	33kΩ	"	"
R528	"	"	"	"
R529	QRD181J-243	24kΩ	"	"
R530	"	"	"	"
R531	QRD141J-682	6.8kΩ	1/4W	"
R532	"	"	"	"
R533	"	"	"	"
R534	"	"	"	"
R535	"	"	"	"
R536	"	"	"	"
R537	"	"	"	"
R538	"	"	"	"
R539	"	"	"	"
R540	"	"	"	"
VR501	QVZ5010-002	250kG 2 gangs		Slide Volume (S.E.A.)
VR502	"			"
VR503	"			"
VR504	"			"
VR505	"			"
VR506	QVT6C2W-6F5	250kW		" (Balance)
VR507	QVT9C2B5G5E	150kB 2 gangs		" (Volume)

8-(7) TAC-403 Speaker Switch C.B. Ass'y

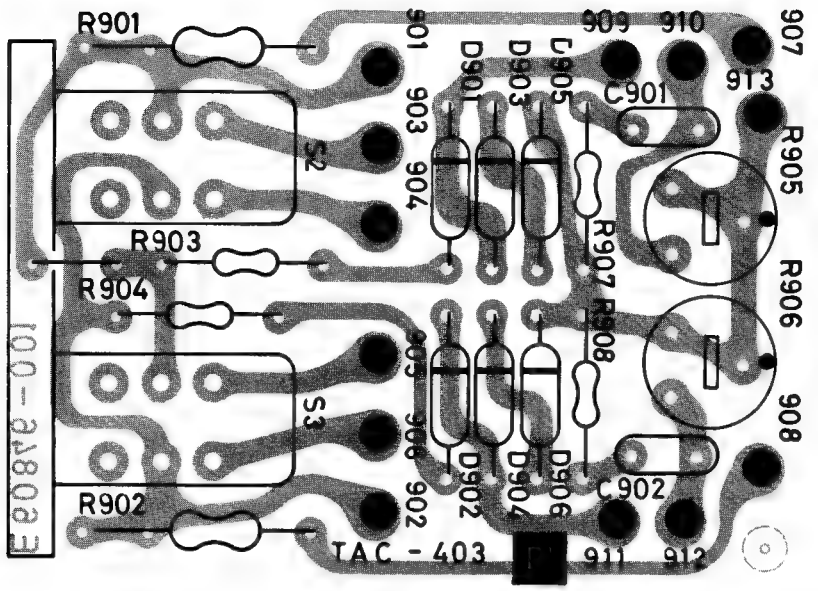


Fig. 21

Diodes

Item No.	Part Number	Rating	Description	Maker
D901	1S188FM		Germanium	Sanyo
D902	"		"	"
D903	"		"	"
D904	"		"	"
D905	"		"	"
D906	"		"	"

Capacitors

Item No.	Part Number	Rating		Description	Maker
C901	QFM41HK-223	22000pF	50V	Mylar	
C902	"	"	"	"	

Resistors

Item No.	Part Number	Rating		Description
R901	QRG016J-221	220Ω	1W	O.M.F.
R902	"	"	"	"
R903	QRD141J-562	5.6kΩ	1/4W	Carbon
R904	"	"	"	"
R905	QVP4AOB-222	2.2kΩ		Variable
R906	"	"		"
R907	QRD141J-821	820Ω	1/4W	Carbon
R908	"	"	"	"

Other

Item No.	Part Number	Rating	Description
	QSP0229-004		Push Switch

9. Packing Materials List

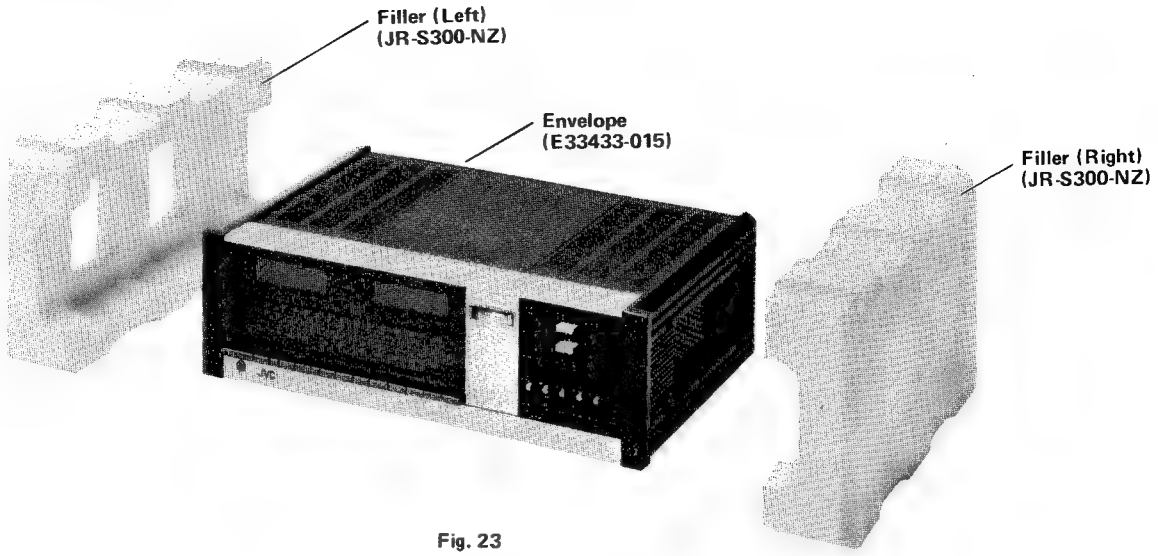


Fig. 23

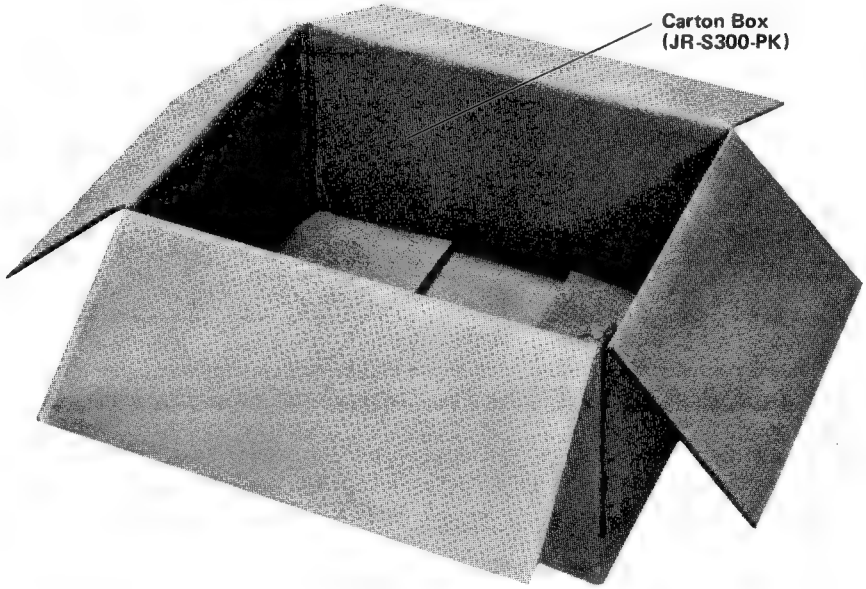


Fig. 24

10. Accessories List

Part Number	Description	Q'ty
E30580-500A	Instruction Book	1
E64103-103	Polishing Cloth	1
E64207-002	Envelope for Accessories	1
BT20002C	Warranty Card	1

Note: The Instruction Book also contains the schematic diagram.

11. Schematic Diagram

Precaution
After replacement of output and driver transis
(see power amplifier adjustment on page 11).

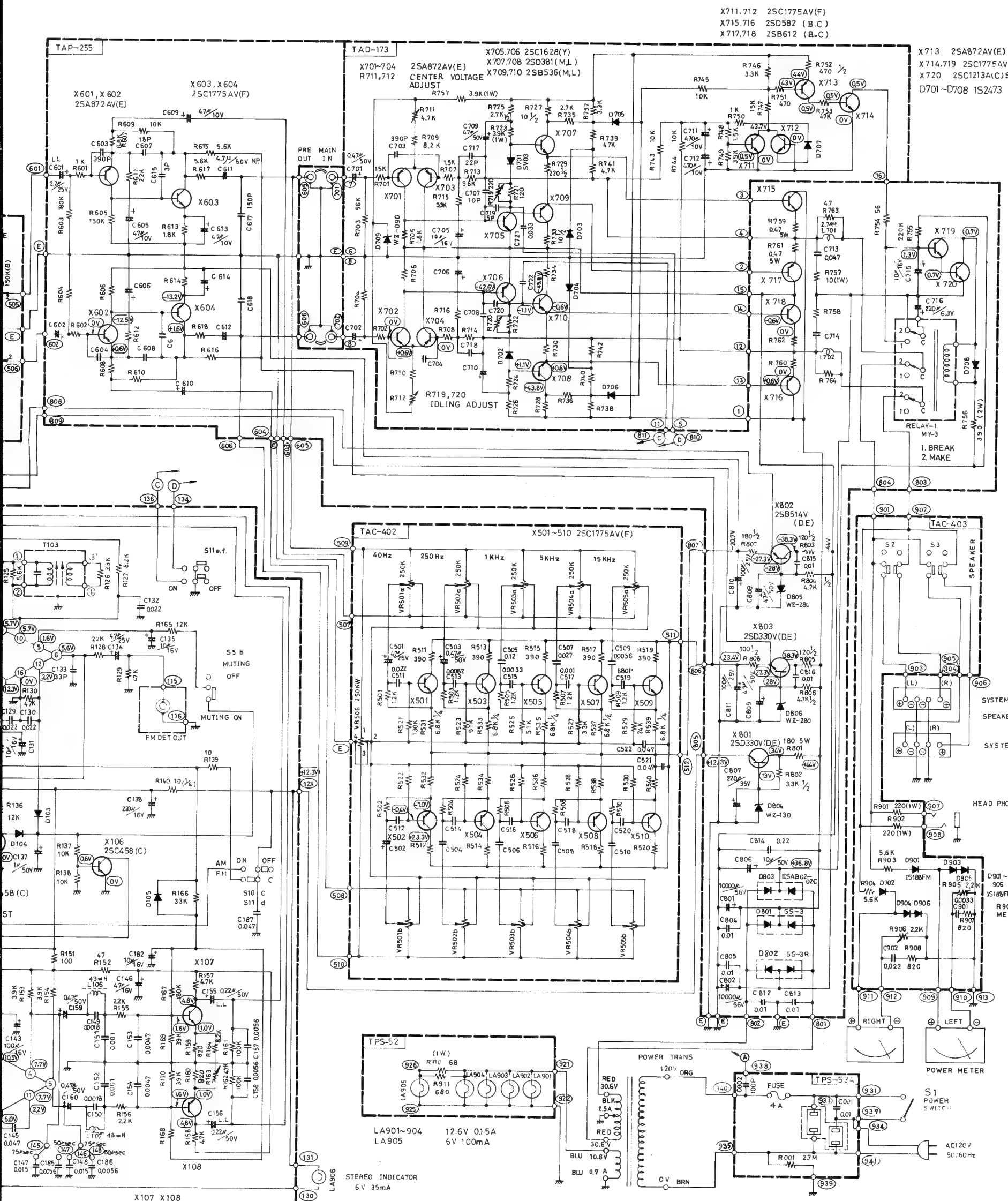


Fig. 22

Precaution

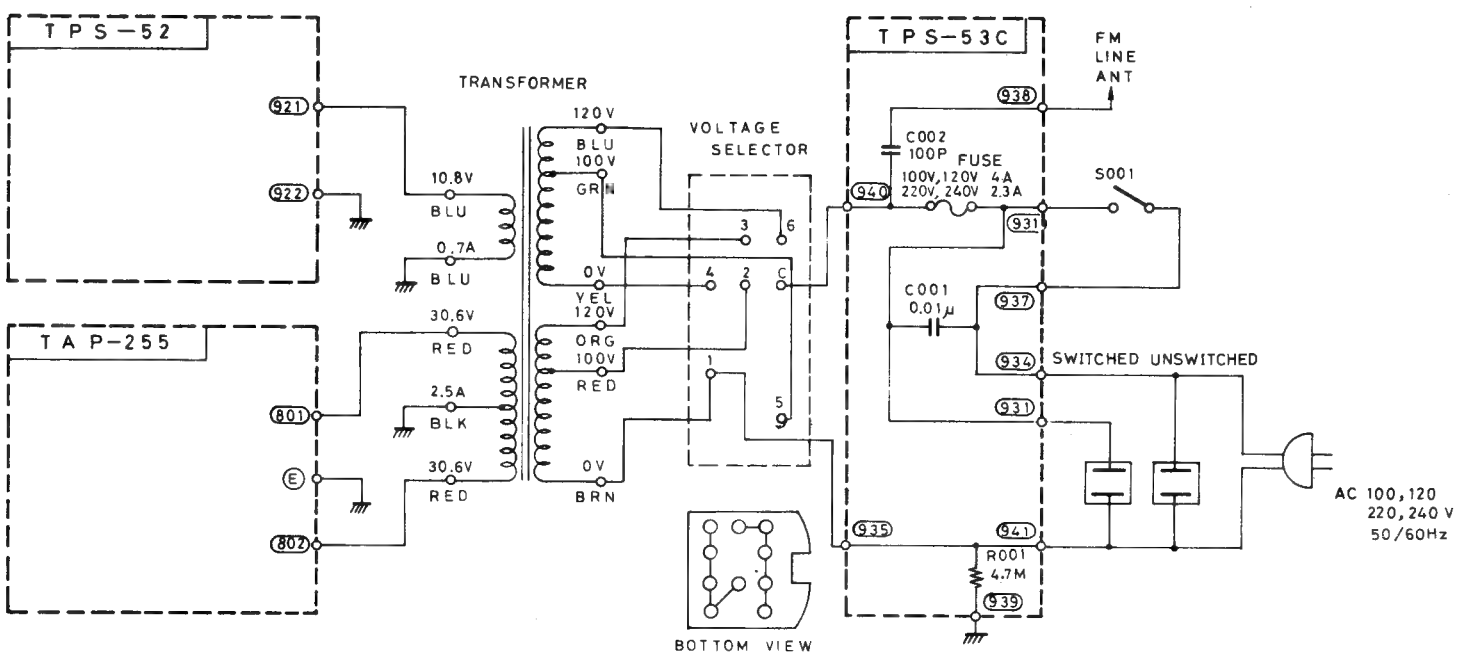
After replacement of output and driver transistors, check the bias adjustment (see power amplifier adjustment on page 11).

Circuit Board Ass'y Locations

C.B. Ass'y	Description	Pag
TFC17	FM/AM Tuner & Equalizer Amp.C.B. Ass'y	12
TPS-52	Lamp C.B. Ass'y	20
TPS-53A	AC Fuse C.B. Ass'y	20
TAD-173	Driver Amp. C.B. Ass'y	21
TAP-255	Power Supply, Pre & Power Amp. C.B. Ass'y	24
TAC-402	S.E.A. (Sound Effect Amp.) C.B. Ass'y	27
TAC-403	Speaker Switch C.B. Ass'y	30

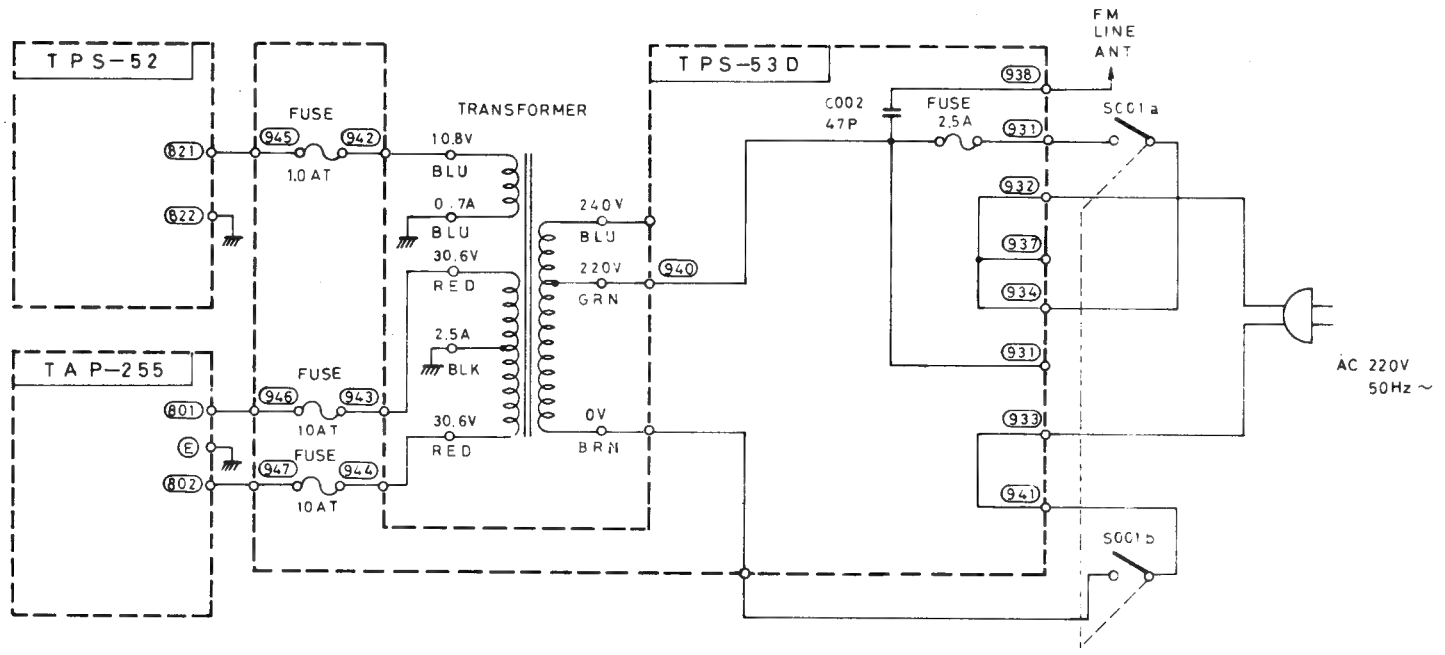
〔P〕 FOR PACEX
〔F〕 FOR EUROPE EXCEPT SEMKO AND SEV
〔U〕 FOR OTHER COUNTRIES

PRIMARY AC100V. 120V. 220V. 240V. 50 / 60Hz



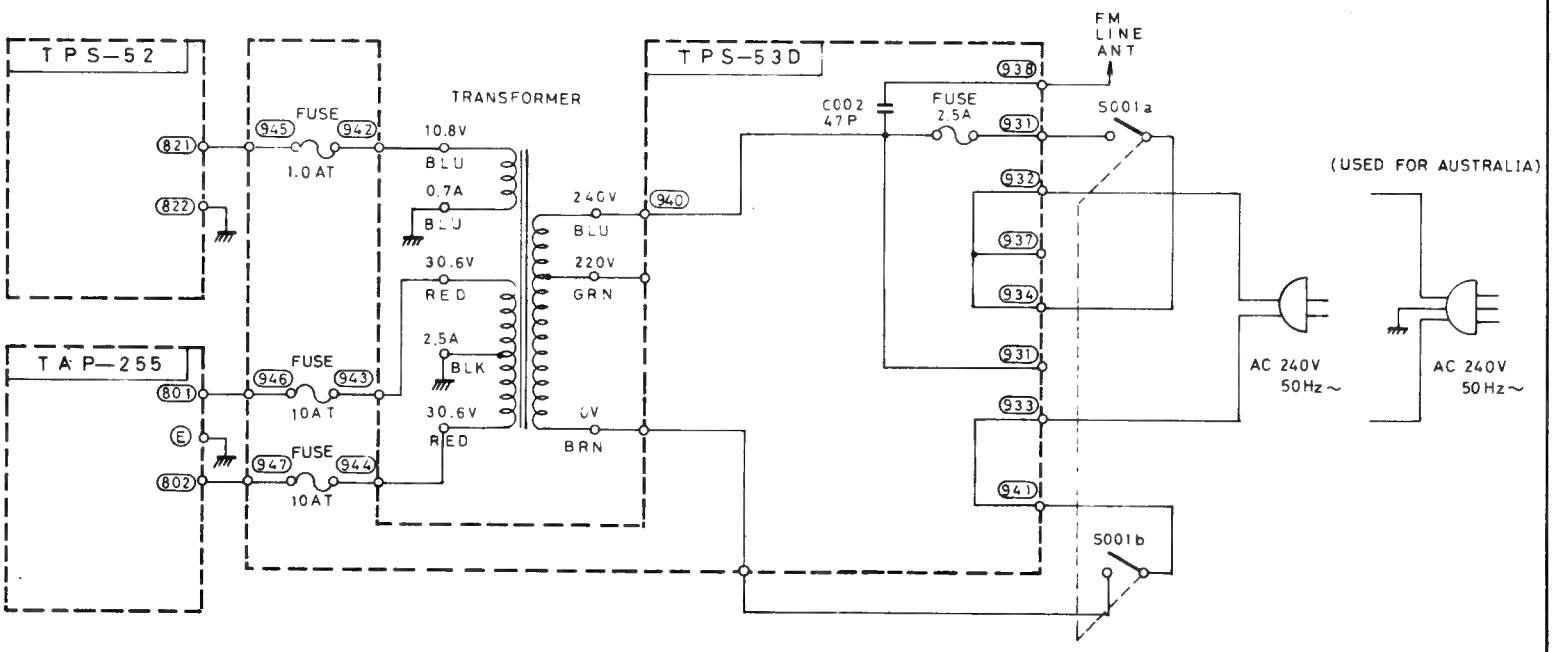
〔E〕 FOR EUROPE

PRIMARY AC 220V 50Hz ~



〔A〕 FOR AUSTRALIA
〔B〕 FOR U.K.

PRIMARY AC 240V 50Hz ~



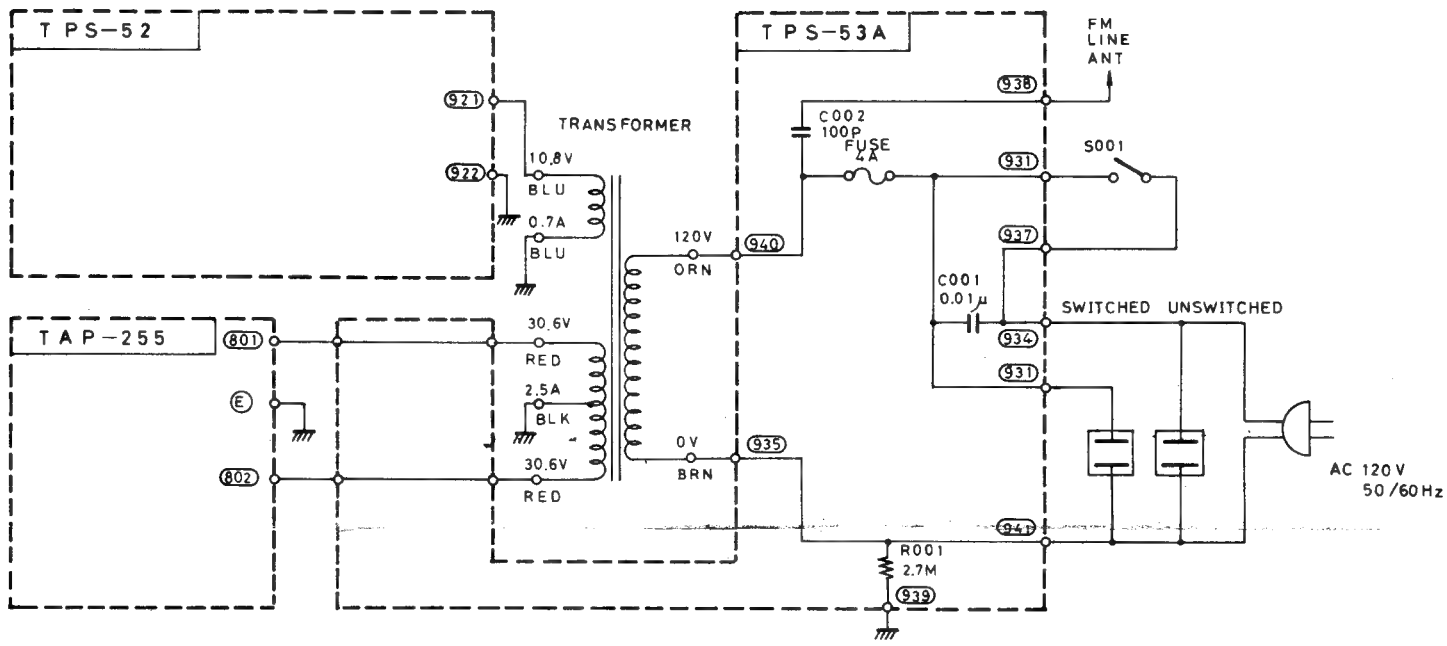
. 50 / 60Hz

HED

AC 100, 120
220, 240 V
50/60Hz

[J] FOR U.S.A

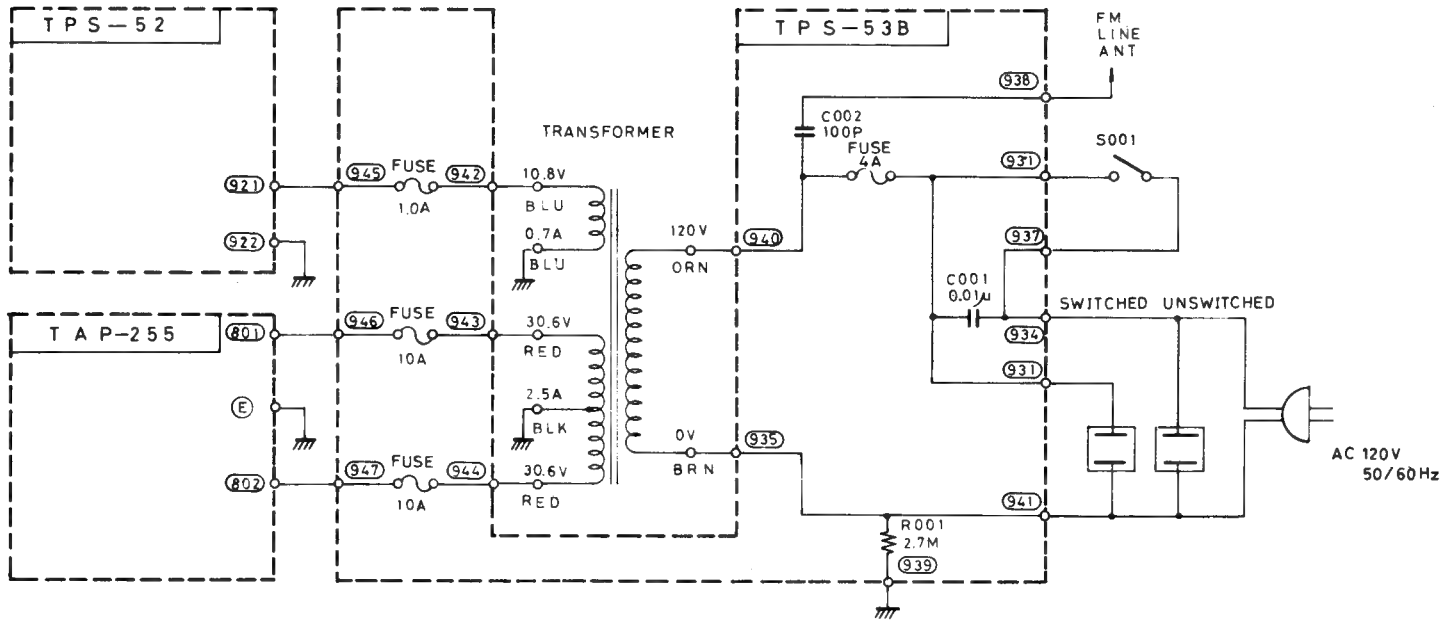
PRIMARY AC 120V 50 / 60Hz



AC 100, 120
220, 240 V
50/60Hz

[M] FOR CANADA

PRIMARY AC 120V 50/ 60HZ

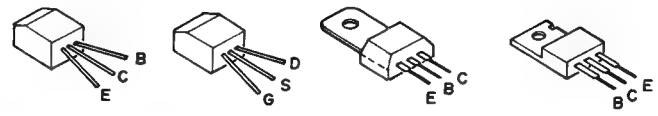


AC 220V
50Hz ~

(USED FOR AUSTRALIA)

AC 240V
50Hz ~

AC 240V
50Hz ~

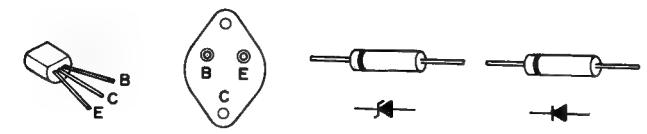


2SC458 (C)
2SC1342 (B or C)
2SC461 (C)
2SC535 (B or C)

2SK55D

2SC1628

2SD-33-0V (E)
2SD381
2SB536
2SB514V

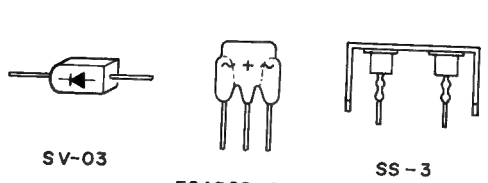


2SA872AV (E)
2SC1775AV (F)

2SB612
2SD582

WZ-090 (E0771-10)
WZ-280

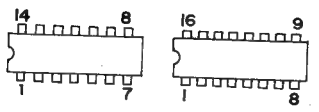
1S188FM
1S2473F



SV-03

ESAB02-02C

SS-3
SS-3R



HA1151
HA1156W

HA1137W

12. Parts List with Specified Numbers for Designated Areas.

Page	Item No.	Description	Original	For Europe Sweden Norway Finland Switzerland Denmark	For U.K. and Australia	For Canada	For Other Countries and PACEX
5	8	Power Switch	QSU1135-001	QSP2111-001	QSP2111-001	QSU1135-001	QSU1135-001
		Control Bracket	E60888-001	E60889-001	E60889-002	E60888-001	E60888-001
6	8	Power Cord	QMP1200-244	QMP3800-240 (Switzerland) E03544-001 (Sweden)	QMP9017-007 (U.K.) E03551-002 (Australia)	QMP1200-244	QMP1200-244
20		Fuse (Primary)	QMF61U1-4RO	QMF51A2-2R5	QMF51A2-2R5	QMF61U1-4RO	QMF60R1-4RO QMF60R1-2R3 (for AC 220V & AC 240V only)
		Fuse (Secondary)					
		1A		QMF51A2-1RO	QMF51A2-1RO		
		10A		QMF51A2-100	QMF51A2-100		
4		Power Transformer	E03077-19	E03077-19C	E03077-19D (U.K.) E03077-19C (Australia)	E03077-19	E03077-19B
20		AC Fuse C.B. Ass'y	TPS-53A	TPS-53D	TPS-53D	TPS-53B	TPS-53C
31		Instruction Book Warranty Card	E30580-500A BT20002C	E30580-501A	E30580-500A	E30580-500A BT20008	E30580-500A BT20014C (PACEX only)

MODEL JR-S300

SERVICE MANUAL

SUPPLEMENT

The listed part numbers have been changed for improvement.
This supplement comparatively draws the difference between original and new part number.
Use this supplement together with original service manual.

Removal of Front Panel

Procedure and Part Numbers

1. Remove the top cover, item No. ① . Refer to the removal of top cover on page 3.
2. Remove the dial pointer carefully according to the steps below:
   a. Slide the dial pointer to the center position of the dial rail.
   b. Remove the dial cord from the dial pointer. Do not pull the dial cord strong.
   c. Remove the dial pointer from the dial rail carefully.
3. Remove one screw, item No. ③ located on the bottom of the front panel.
4. Remove 4 screws, item No. ② located on both sides of the front panel.

Note for step 2: Refer to Fig. 9 of the dial stringing procedure on page 7 when replacing the dial pointer onto the dial rail.

In Case of Removing the Window Screen from the Front Panel:
Remove 4 hexagonal screws, item No. 3 located on the window screen. Refer to Fig. 6 on page 5.
Warning: Use hexagonal wrench (size 3/32") and do not screw in excessively when replacing the window screen.

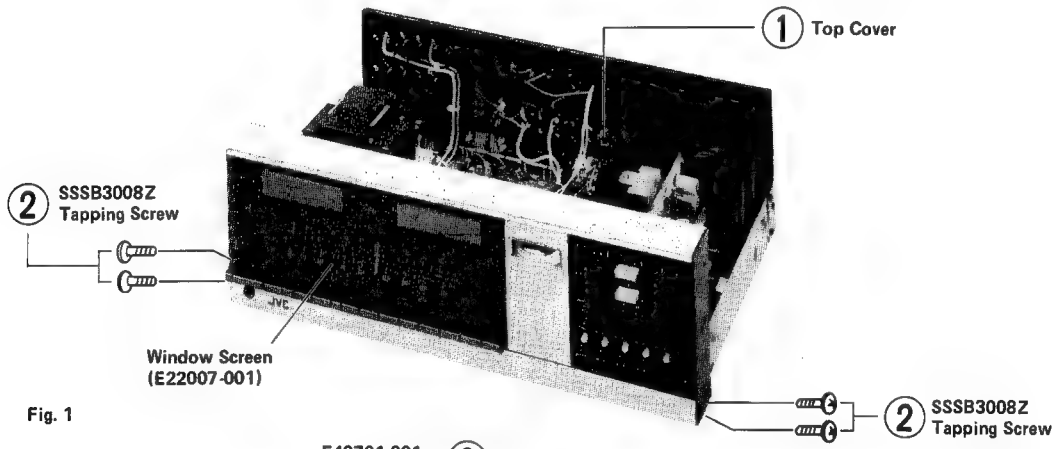


Fig. 1

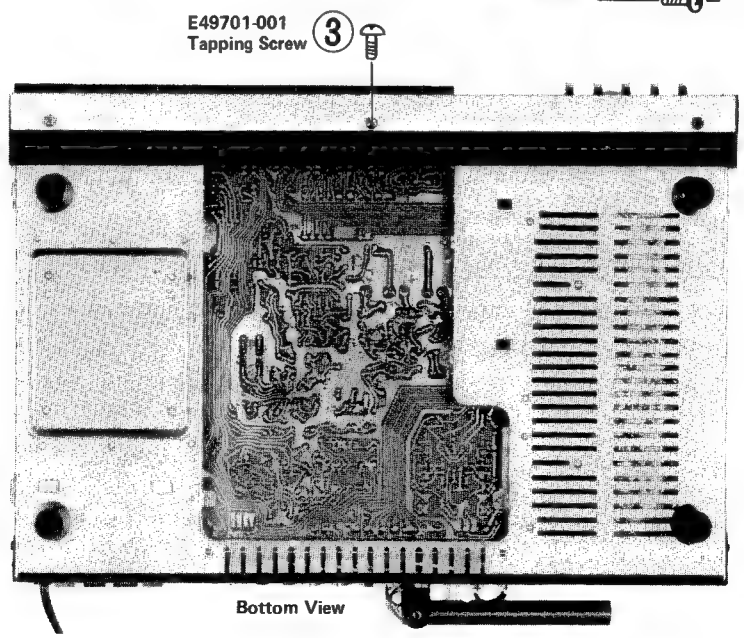


Fig. 2

4. EXPLODED VIEW AND PARTS LIST AT PAGE 5

4-(1) Front Panel at page 5

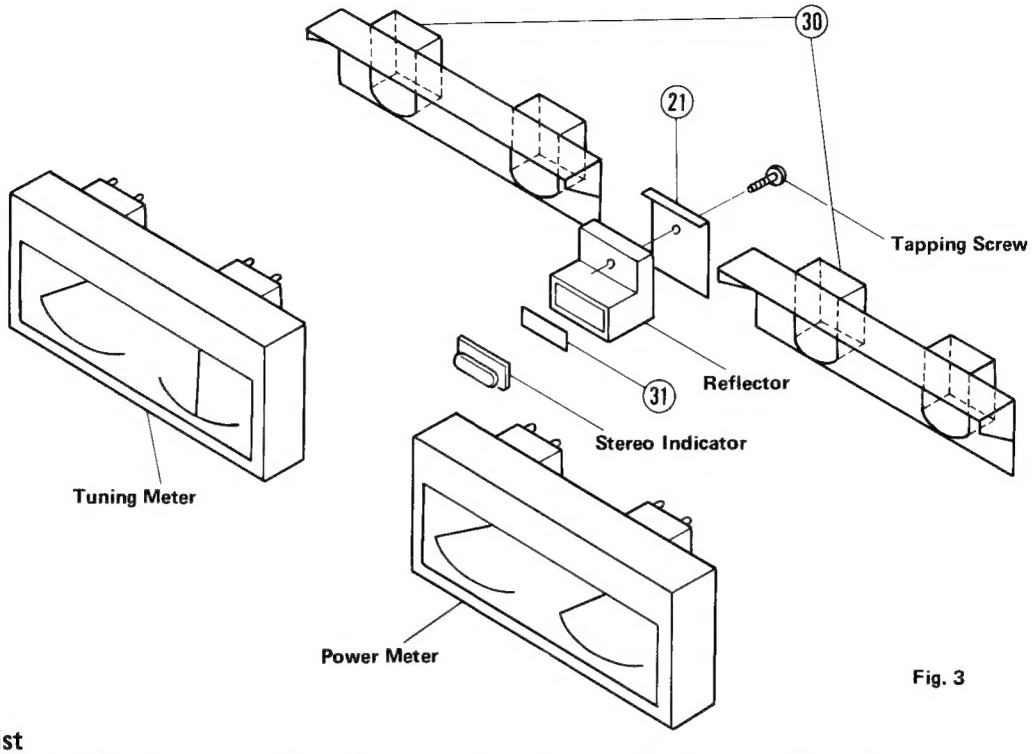


Fig. 3

Parts List

Item No.	New Part Number	Original	Description
5	E60880-002	E60880-001	Slide Knob
13	E34423-002	E34423-001	Meter Holder
15	QLP4101-006	QLP4101-004	Pilot Lamp
18	–Delete–	E46855-039	Color Screen
21	E61220-001	Q03091-105	L Typed Bracket
23	E34422-002	E34422-001	Dial Pointer Ass'y
30	E34545-001	–Not Listed–	Meter Covering
31	E36855-043	–Not Listed–	Color Screen

4-(2) Rear Panel at page 6

Parts List

Item No.	New Part Number	Original	Description
5	E03572-004D	E03572-004B	Antenna Terminal Board
15	SBSB3008M	SBSB3008Z	Tapping Screw
17	E60111-002	E60111-001	Pre-Main Jumper
18	E61143-001	E49973-001	GND Terminal Ass'y
19	–Delete–	E60215-001	GND Washer

5. DIAL STRINGING PROCEDURE AT PAGE 7

Right

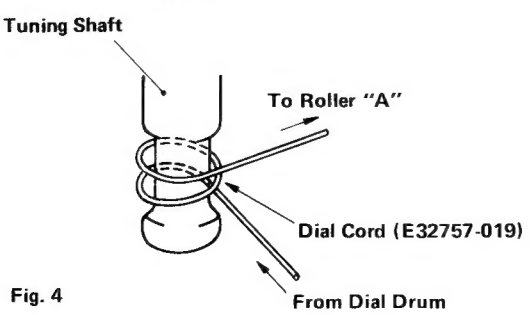


Fig. 4

Wrong (original)

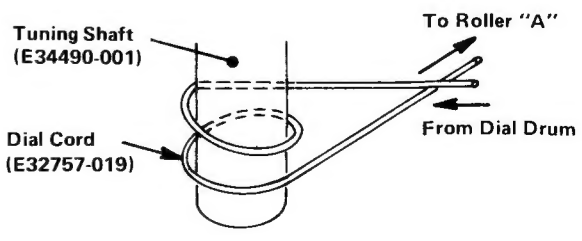


Fig. 5

8. CIRCUIT BOARD ASS'Y PART LOCATION AND PARTS LIST

8-(1) TFC-17 FM/AM Tuner & Equalizer Amp. C.B. Ass'y at page 12

Diode

Item No.	New Part Number	Original	New Rating	Description	Maker
D109	–Delete–	1S2473		Diode	Toyo Dengu

Coil

Item No.	New Part Number	Original	New Rating	Description
L105	E03522-220K	E03522-100J	22μH	Choke Coil

Capacitors

Item No.	New Part Number	Original	New Rating		Description
C135	QEW41EA-475	QEW41CA-106	4.7μF	25V	Electrolytic
C159	QEW41HA-474	QEW41EA-474	0.47μF	50V	"
C160	QEW41HA-474	QEW41EA-474	"	"	"
C171	QEW41CA-106	QEW41EA-106	10μF	16V	"
C188	–Delete–	QEW40JA-227	220μF	6.3V	"
C189	QCT05CH-150	–Not Listed–	15pF	50V	Ceramic
C190	QEW41CA-476	–Not Listed–	47μF	16V	Electrolytic
C555	QCF11HP-473	QCS11HP-473	0.047μF	50V	Ceramic
C556	QCF11HP-473	QCS11HP-473	"	"	"

Resistors

Item No.	New Part Number	Original	New Rating		Description
R118	QRD181J-331	QRD181J-271	330Ω	1/8W	Carbon
R123	–Delete–	QRD181J-104	100kΩ	"	"
R126	QRD181J-392	QRD181J-332	3.9kΩ	"	"
R127	QRD181J-392	QRD181J-332	"	"	"
R130	–Delete–	QRD181J-473	47kΩ	"	"
R135	QVP4A0B-473	QVP4A0B-473	"	"	Variable
R137	QRD181J-104	QRD181J-103	10kΩ	"	Carbon
R138	QRD181J-333	QRD181J-103	33kΩ	"	"
R140	QRD141J-100	QRD181J-100	10Ω	1/4W	"
R161	–See New Rating–	QRD181J-104	100kΩ	1/8W	"
R186	QRD181J-822	QRD181J-472	8.2kΩ	"	"
R557	QRD181J-334	QRD181J-124	330kΩ	"	"
R558	QRD181J-334	QRD181J-124	"	"	"

8-(3) TPS-53A AC Fuse C.B. Ass'y at page 20

Capacitors

Item No.	New Part Number	Original	New Rating		Description
C001	QCZ9008-101	QFH53AM-103M	100pF	500V	Ceramic
C002	QFH53AM-103	QCZ9008-101	0.01μF	1000V	Metalized Mylar

8-(4) TAD-173 Driver Amp. C.B. Ass'y at page 21

Capacitors

Item No.	New Part Number	Original	New Rating		Description
C705	QEW41CA-106	QEW41AA-106	10μF	16V	Electrolytic
C719	QCS12HJ-120	QCS12HJ-5R0	12pF	500V	Ceramic

Resistors

Item No.	New Part Number	Original	New Rating		Description
R745	QRD141J-682	QRD141J-103	6.8kΩ	1/4W	Carbon

Corrections: Item Nos. R472 through R475 should be R742 through R745.

8-(5) TAP-255 Power Supply, Pre. & Power Amp. C.B. Ass'y at page 24

Transistor

Item No.	New Part Number	Original	New Rating		Description	Maker
X720	2SC1213A (C) S	2SC1213A (C) S	400mW	150MHz	Silicon	Hitachi

Capacitor

Item No.	New Part Number	Original	New Rating		Description
C803	–Delete–	QCF12HP-103	0.01μF	500V	Ceramic
C807	–See New Rating–	QEW41VA-227	220μF	35V	Electrolytic

Others

Item No.	New Part Number	Original	New Rating		Description
	E34453-001	E60878-001			Heat Sink
	E34453-002	E60878-002			Heat Sink Holder
	SBSB3008Z	SBSB30082			Tapping Screw
RY701	ESK-D24-311	–Not Listed–		24V	Relay Switch
	E60171-001	–Not Listed–			Heat Sink (for 2SD330V)
	A49479-2	–Not Listed–			G.T. Pin (for R801)

8-(6) TAC-402 S.E.A. (Sound Effect Amp.) C.B. Ass'y at page 27

Capacitors

Item No.	New Part Number	Original	New Rating		Description
C503	QEB41HM-474	QEB41EM-474	0.47μF	50V	L.L.C. Electrolytic
C504	QEB41HM-474	QEB41EM-474	"	"	"

Resistor

Item No.	New Part Number	Original	New Rating	Description
VR507	QVT9C2B-5G5E	QVT9C2B5G5E		Slide Volume (Volume Control)

8-(7) TAC-403 Speaker Switch C.B. Ass'y at page 30

Resistor

Item No.	New Part Number	Original	Rating		Description
R907	QRD141J-101	QRD141J-821	100Ω	1/4W	Carbon

Other

Item No.	New Part Number	Original	Rating	Description
	E03569-9B0UD	–Not Listed–		9 pins Socket

10. ACCESSORIES LIST AT PAGE 31

New Part Number	Original	Description	Q'ty
–Delete– BT20020	E64103-103 BT20002C	Polishing Cloth Warranty Card	1 1

Note: The instruction book does not contain the schematic diagram.

12. PARTS LIST WITH SPECIFIED NUMBERS FOR DESIGNATED AREAS AT PAGE 34

Page	Item No.	Description	Original	For Europe Sweden Norway Finland Switzerland and Denmark	For Australia	For Canada	For Other Countries and PACEX
5	8	Power Switch	QSU1135-001	[QSP2111-011]	[QSP2111-011]	QSU1135-001	QSU1135-001
6	8	Control Bracket for Power Switch	E60888-001	E60889-001	E60889-001	E60888-001	E60888-001
6	8	Power Cord	QMP1200-244	[QMP3910-244]	E03551-002	QMP1200-244	QMP1200-244
20	8	Fuse (Primary)	QMF61U1-4R0	QMF51A2-2R5	QMF51A2-2R5	[QMF60R1-4R0]	QMF60R1-4R0 (for 100–120V only) QMF60R1-2R3 (for 220–240V only)
		Fuse (Secondary)					
		1A		QMF51A2-1R0	QMF51A2-1R0	[QMF60R1-1R2 (1.2A)]	
		10A		QMF51A2-100	QMF51A2-100	[QMF60R1-100]	
4		Power Transformer	E03077-19	E03077-19C	E03077-19C	E03077-19	E03077-19B
20		AC Fuse C.B. Ass'y	TPS-53A	TPS-53A	TPS-53D	TPS-53B	TPS-53C
31		Instruction Book	E30580-500A	[E030580-500A] E30580-501A (Germany) [E30580-521A (France)]	E30580-500A	E30580-500A E30580-521A (France)	E30580-500A
31		Warranty Card	[BT20020]		[BT20029]	[BT20025]	[BT20014B (PACEX only)]

Note: The number in [ ] is for New Part Number, others are the same as original.